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*Standards Activities of  
Organizations in the  
United States*

*Robert B. Toth, Editor*

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#806  
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# *Standards Activities of Organizations in the United States*

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Robert B. Toth, Editor

Office of Standards Code and Information  
National Institute of Standards  
and Technology  
Gaithersburg, MD 20899

Supersedes NBS Special Publication 681

February 1991



U.S. Department of Commerce  
Robert A. Mosbacher, Secretary

National Institute of Standards and Technology  
John W. Lyons, Director

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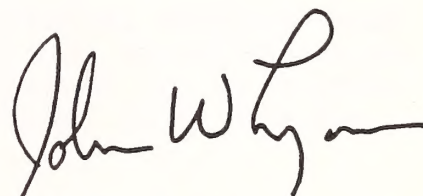
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## FOREWORD

The National Institute of Standards and Technology (NIST) assists the private sector and other government agencies through research and development of better methods of measurement, determination of physical constants and properties of materials, and design of practical test procedures. Standards are an important medium for disseminating the results of Institute research, and the work of the national standards bodies is of vital concern to NIST. This directory identifies and describes U.S. public and private sector organizations which develop, publish, and revise standards, participate in this process, identify standards, or make standards available through information centers or distribution channels. These organizations have grown steadily in number since the first volume in this series was issued in 1941.

I believe that this directory, which covers mandatory and voluntary U.S. standards activities, will be a useful reference for all who need and use standards. An updated companion volume was issued in May 1989 as NIST Special Publication 767, "Directory of International and Regional Organizations Conducting Standards-Related Activities." Both these and similar reference documents are maintained by the Institute's Office of Standards Services (OSS). OSS invites your comments and inquiries regarding its other publications.



John W. Lyons  
Director



## ACKNOWLEDGMENTS

Every entry in this directory was carefully prepared by representatives of the participating organizations. Obviously, this directory could not have been issued without the contributions and cooperation of hundreds of staff persons in the trade associations, professional societies, government agencies, and other organizations that constitute the "standardization community." They deserve the thanks of those who worked on this project and all who use the directory.

John Donaldson, Don Mackay, and Maureen Breitenberg ably coordinated and monitored this project for NIST's Office of Standards Services. Considerable data was provided by Steve Lowell of the Department of Defense and Bernice Durbin of Information Handling Services. Their authoritative statistics constitute a major portion of the data which help define our standards resources.

Special thanks are due the staff of R. B. Toth Associates, who compiled this directory under contract to NIST, in particular, Kellie Tassone and Megan Fogarty who managed all aspects of information gathering and processing.



## ABSTRACT

This directory is a guide to mandatory and voluntary standards activities in the United States at the national level - both governmental and nongovernmental (trade associations, technical and other professional societies). It excludes proprietary (company standards) and state and local levels of government (i.e., county and municipal). It supersedes the 1984 edition (NBS SP 681), "Standards Activities of Organizations in the United States". It includes standards distributors, libraries, and information centers, and union lists of standards repositories by regional areas. It also lists organizations that no longer develop standards or have become defunct since the previous directory was issued.

Over 750 current descriptive commentaries are formatted, with subject headings to facilitate access to specific information. The main sections cover nongovernment; federal government; sources of standards documents and information; a subject index and related listings covering acronyms and initials, defunct bodies, and those organizations with name changes. Organizations have been included if they develop standards or contribute to the standardization process, whether voluntary or mandatory, or are sources of standards documents or information. An introductory section provides general information on federal (including military) standards activities, a list of 20 major nongovernment standards developers, some historical notes, and an overview of U.S. (national) standardization activities.

Keywords: codes; government standardization activities; nongovernment standardization activities; overview of U.S. standardization activities; recommended practices; sources of standards; specifications; standardization; standards; test methods;





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## 1. INTRODUCTION

Standardization activities in the United States are broad, complex, and decentralized. This directory is intended to provide perspective and to serve as a source of information about the standardization system; the inputs are based on material provided by the principals.

This Directory is the sixth in a series started in 1941. The first edition, NBS Miscellaneous Publication (MP) 169, "Standardization Activities of National Technical and Trade Organizations," was edited by Robert A. Martino and covered 450 organizations. The second edition, NBS MP 230, was edited by Sherman Booth and issued in 1960. The third edition, "Directory of United States Standardization Activities," NBS MP 288, was edited by Joan Hartman and issued in 1967, and the 1975 edition, NBS Special Publication 417 was edited by Sophie Chumas. This publication supersedes the 1984 edition, NBS Special Publication 681 which was also edited by Robert B. Toth.

### 1.1 SCOPE AND CRITERIA

This edition summarizes standardization activities of over 750 organizations which, in the aggregate, comprise the U.S. standardization system. In the broadest sense, "standards" includes specifications, codes, guidelines, recommended practices, grading rules, and similar documents. This directory also refers to regulatory standards developed by government agencies, but not to laws or regulations per se. However, many federal, state, and local regulations and codes are based on the voluntary standards of organizations listed in this directory.

The directory includes organizations that develop standards and also those that work with others to develop and use standards or that regularly comment on draft standards. It is considered to be inappropriate to include activities that only develop ethical/professional standards, or that set standards for judging animals, or are concerned exclusively with standards for services or training.

The directory lists sources of U.S. standards outside the United States and U.S. sources of foreign and international standards in response to increasing interest and application of standards throughout the world. Self-designated regional and international organizations are covered separately in NIST Special Publication 767, "Directory of International and Regional Organizations Conducting Standards-Related Activities," which has 338 entries, and NIST SP 795, "Directory of European Regional Standards-Related Organizations," which has 154 entries.



## 1.2 AN OVERVIEW

At the national level the U.S. standardization community currently maintains more than 94,000 standards in an active status. Figure 1 shows the various categories of standards developers and their output. The private sector has prepared about 45 percent of the total. In the private sector about 275 standards developers have ongoing standardization programs. Another 150 have prepared a few standards in the past, occasionally update them, but are not actively engaged in standardization work. Many other organizations, of course, review standards when their interests are affected, but they are not in the mainstream of standards development.

The standards of the 20 major private sector standards developers (Figure 2) constitute more than 75 percent of the nongovernment standards database.

Private sector organizations that are active in standards development can be categorized into three groups:

1. Scientific and Professional Societies. Some of these groups, in addition to their professional and educational roles, also develop standards. Some examples include the American Society of Mechanical Engineers, American Association of Cereal Chemists, and Society of Photographic Scientists and Engineers.
2. Trade Associations. These associations deal with the mutual business interests of their members drawn from a particular industry and promote the industry and its products. To address these objectives, many trade associations develop standards for the products manufactured by their members, although a few concentrate on developing standards for products used by the industry and its customers. The Aerospace Industries Association and the American Petroleum Institute are two trade associations that develop standards for items used by their members.
3. Standards-Developing Organizations. Organizations founded specifically to develop standards are often designated "standards-developing organizations" (SDOs). Some confusion occurs when the three types of organizations are collectively called SDOs. The oldest SDO in the United States is the U.S. Pharmacopoeial Convention. It published standards for 219 drugs in 1820. The American Society for Testing and Materials can be classified as an SDO, as can many of the organizations that serve as secretariats for ANSI accredited committees (e.g., Exchange Carriers Standards Association) or that operate as ANSI accredited organizations. In recent years, users of equipment and systems have gathered into loosely organized groups to define their functional requirements. Usually these requirements are specified in standards. Probably the most

prominent is the Manufacturing Automation Protocol & Technical and Office Protocol Users Group.

The number of published standards is not necessarily an absolute indicator of overall activity level or significance. Though counted as single standards, the American Bureau of Shipping's Rules for Building and Classing Steel Vessels, or any of the model building codes are not comparable to 95 percent of the standards published in the United States. The ASME Boiler and Pressure Vessel Code exceeds 11,000 pages. The Code, together with the other 750 ASME codes and standards, constitutes a collection of more than 48,000 pages. The 8,500 American Society for Testing and Materials standards total 46,000 pages.

The number of available standards may not be indicative of their value to industry and commerce. The real value of standards is realized only when they are used. Methods have yet to be developed to measure how often, or how widely, individual standards are implemented. Standards developers tell us that 80 percent of the orders for individual standards are for 15 or 20 percent of the total number published. Many standards are seldom used. We also know that, in spite of 5-year reviews, a good portion of our standards document obsolescent technology that, while appropriate for spares and maintenance of older equipment, is not appropriate for new designs. Some believe 25 to 30 percent of our national standards - both government and industry - fall into this category. Finally, some U.S. standards are redundant or overlapping. In a few areas, particularly building and construction, we often find five or six standards, that while not identical, define the functional requirements for the same type of product or material. More than 11,000 (12%) standards are applicable to building and construction. As shown in Figure 3, more than 200 government and private sector organizations develop standards in this sector.

Figure 1 indicates that the Department of Defense (DoD) is, by far, the largest developer of standards in the United States. The General Services Administration's (GSA) federal specifications and standards are widely used by federal and state agencies to procure many common products, and federal test methods are used in many industries. It is estimated that there are another 8,500 standards developed by such federal agencies as the Occupational Safety and Health Administration (OSHA), the Environmental Protection Agency (EPA), the Food and Drug Administration (FDA), Postal Service, and others. A significant portion of these are in a gray area where it is difficult to differentiate between standards and regulations.

The rate of standards development by DoD and GSA has slowed to the point where more standards are being cancelled than are created. In the period 1981 to 1990, DoD cancelled 7,600 of its specifications and standards, created 3,000 new ones, and adopted 2,000 industry standards. Currently, more than 4,900 industry standards have been adopted by DoD and efforts continue to increase that number. The decrease in the number of DoD's standards would be even more significant had it not prepared nearly 3,000 Commercial Item Descriptions which serve as procurement specifications for off-the-shelf products.



<u>Government</u>	Number of Standards	
Defense	38,000	40%
Federal (GSA)	6,000	6%
Other	<u>8,500</u>	<u>9%</u>
	52,000	55%
 <u>Private Sector</u>		
Scientific & Professional	13,000	14%
Trade Association	14,500	16%
Standards Developing Organizations	<u>14,000</u>	<u>15%</u>
	41,500	45%
 Total	94,000	

Figure 1  
Current number of U.S. standards and their developers

	Number of Standards
Aerospace Industries Association	3,000
American Association of Cereal Chemists	370
American Association of State Highway & Transportation Officials	1,100
American Conference of Governmental Industrial Hygienists	700
American National Standards Institute	1,400*
American Oil Chemists Society	365
American Petroleum Institute	880
American Railway Engineers Association	300
American Society of Mechanical Engineers	745
American Society for Testing and Materials	8,500
Association of American Railroads	1,350
Association of Official Analytical Chemists	1,900
Cosmetic, Toiletry & Fragrance Association	800
Electronic Industries Association	600
Institute of Electrical & Electronics Engineers	575
National Fire Protection Association	275
Society of Automotive Engineers	5,100
Technical Association of the Pulp and Paper Industry	270
Underwriters Laboratories	630
U.S. Pharmacopeia	4,450
* Published and copyrighted by ANSI	

Figure 2  
20 major non-government standards developers



	Number of Standards
<u>Private Sector</u>	
200 Organizations	6,000
<u>Federal Government</u>	
GSA and DoD	2,000
Corps of Engineers	1,000
Navy Facilities Command	750
Postal Service	350
Others	750
Total	10,850

Figure 3  
U.S. standards used in building and construction

### 1.3 CHANGES SINCE 1984

Thirty-five private sector organizations listed in the 1984 edition of the directory no longer participate in standardization activities or have ceased operations. The most notable are the Fragrance Materials Association which no longer maintains its 300 standards and Mill Mutual Fire Prevention Bureau which had developed standards for agri-processing plants since 1911. Major organizations indicating that they no longer participate in standardization activities include the Scientific Apparatus Makers Association and the Society of Manufacturing Engineers.

Forty additional organizations have been newly identified as standards developers. Many of these are in fields of new technology where market acceptance is often directly related to the availability of standards. Organizations in this category include:

- Automated Imaging Association
- Corporation for Open Systems International
- Home Automation Association
- Laser Institute of America
- MUMPS Development Committee
- National Computer Graphics Association
- Robotic Industries Association
- SPARC International

In 1983 when the fifth edition of this directory was compiled, it was estimated that the private sector published 32,000 standards as active documents. Seven years later that figure is estimated to be 41,500 which represents an average rate of increase of about 4 percent per year. Some of the increase can be attributed to better reporting. Another factor, as noted previously, is that standards developers seldom inactivate standards once they have been published.

### 1.4 COMPILATION OF INFORMATION

More than 1,200 nongovernment organizations were invited to provide entries for the current directory. These included all those cited in the previous edition; organizational members of ANSI; those represented in on-line databases of standards; and organizations listed in directories of trade associations and professional societies. More than 100 federal agencies were solicited for information on their standards-related activities. Follow-up mailings and telephone calls were made primarily to confirm information. However, corrections were sought only in the event of obviously erroneous entries.

The major sections on nongovernment, federal organizations and agencies are each preceded by a short description of mechanisms for policy development and coordination. Entries are organized in the various sections of the directory under subheadings to permit information to be found easily. Naturally, organizations with limited standards activities have fewer subheadings.



Each responding organization has determined for itself whether or not it is a "Standards Developer." A few organizations (less than thirty) self-identify as Standards Developer, although they neither develop nor publish standards, but in fact work within the structure of another organization. Similarly, a few organizations, many of which are the focus for standards activities in their field, insist that they not be cited as Standards Developers, but as working with other organizations to develop standards. A perusal of the information included in the Standardization Activities subheading will usually clarify the actual role.

Although extensive efforts were made to be comprehensive, some organizations that conduct standardization activities may be missing. Information for the entries was voluntarily provided by the submitting organizations, but it was sometimes necessary to reformat or edit for uniformity. Wherever possible, information on secretariats, designations, quantities, and the availability of standards was verified by consulting ISO, IEC, and ANSI publications, indexes, and distributors' catalogs.

Organizations that are not included in this directory are invited to send pertinent information to:

National Center for Standards and Certification  
Information  
Office of Standards Services  
National Institute of Standards and Technology  
Administration Bldg., Room A629  
U.S. Department of Commerce  
Gaithersburg, Maryland 20899

Listed organizations are encouraged to keep NIST informed of changes in organizational name or address.

All others interested in receiving updated information are also invited to add their names and addresses to our mailing list.

## 2. NONGOVERNMENT

### 2.1 NONGOVERNMENT ORGANIZATIONS

This section lists in alphabetical order 637 entries for trade associations, professional and technical societies, and other U.S. private sector organizations that develop standards or work with other organizations to develop standards. The information presented is intended to provide basic data, not only on the type of standards that are prepared, but some indications of the level of activity. Organizations were asked to provide information on the number of members involved in standardization, the number of staff personnel devoted to standardization programs, and secretariats that they sponsor. The individual named is directly responsible for the organization's standardization activities and should be contacted if additional information is required.

Organizations were asked whether or not they had any certification, qualification, or accreditation programs for products, laboratories, or services. In many cases it was considered just as important to indicate when there was no qualification program. Many standards developers provided information on the prefixes or other designations which identify their publications. Those which prepare ANSI standards usually indicate the basic prefix, i.e., S3.x designates ANSI bioacoustics standards, developed by the Acoustical Society of America, ranging from ANSI S3.1 through S3.39.

The keywords were provided by the listed organization, supplemented by the editor. These keywords provide the capability for simple on-line search at some time in the future, and for that reason are separated by semicolons - the convention that is utilized in most search software. Keywords synopsise the areas in which the organization's standardization activities are directed and, as such, assist the directory user to find more quickly pertinent, responsible organizations.



## ABRASIVE ENGINEERING SOCIETY

Bill Rapp, Business Manager

Box 461  
118 Main Street  
Connoquenessing, Pennsylvania 16027  
(412) 789-9141 FAX: (412) 789-7288

Founded: 1956

**Type of  
Organization**

Technical Society  
Standards Developer

**Scope**

Promotes and interprets the scope and potentialities of abrasives to business and the public; promotes industry-wide standards.

**Standardization  
Activities**

Maintains a National Standards Committee which is responsible for the formulation and development of standards for abrasives. Cooperates with the American National Standards Institute (ANSI); serves on American National Standards Committee B74 on Abrasives.

**Availability**

Distributed through ANSI

**Formerly**

American Society for Abrasive Methods

**Keywords**

abrasives; manufacturing;

## ABRASIVE GRAIN ASSOCIATION

Allen P. Wherry, Manager

3020 Detroit Road  
Cleveland, Ohio 44145  
(216) 899-0010 FAX: (216) 892-1404  
Telex: 98-5550

Founded: 1933

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1933  
Ten standards published  
Processed through ANSI

**Standards  
Designation**

ANSI B74.x

<b>Scope</b>	Manufacturers of natural and manufactured abrasives, i.e., silicon carbide, aluminum oxide, corundum, emery, garnet, etc., used in grinding wheels, coated abrasives and other products.
<b>Standardization Activities</b>	Administered by Standards Committee and several subcommittees; participates in international standardization work, cooperating with the International Organization for Standardization (ISO), the Federation of European Producers of Abrasives (FEPA), and ANSI. Publishes ten standards including standards on density, capillarity, friability, and chemical analysis of abrasive grains. Promulgates its documents through the Grinding Wheel Institute Accredited Standards Committee B74. The Technical and Administrative Directors provide technical advice and answer queries related to the Committee's standards activities.
<b>Availability</b>	Distributed directly and through ANSI
<b>Keywords</b>	abrasives; manufacturing; materials;

#### ACCREDITING BUREAU OF HEALTH EDUCATION SCHOOLS

Ms. Martha J. Glanbler, Acting Administrator

Oak Manor Offices  
29089 U.S. 20 West  
Elkhart, Indiana 46514  
(219) 293-0124

Founded: 1964

Standards Staff: 9

<b>Type of Organization</b>	Accrediting Agency Works through other organizations to develop standards
<b>Certification</b>	Accredited program graduates are eligible for professional registration with American Medical Technologists Registry as medical laboratory technician (MLT) and registered medical assistants (RMA).
<b>Scope</b>	Recognized by U.S. Department of Education to accredit medical laboratory technician education programs in the private and public sector through junior college level and medical assistant programs in the private sector and allied health institutions in the private sector. Recognized by Council on Postsecondary Accreditation to accredit medical laboratory technician and medical assistant education programs in the private sector and institutions of allied health in the private sector.



<b>Standardization Activities</b>	Establishes criteria and standards for the administration and operation of health education institutions and specialized programs for medical laboratory technician and medical assistant education; enhances the profession through the improvement of schools, programs, and quality of graduates; provides sound business and ethical standards in the fields of health education; maintains standards and procedures consistent with the philosophies and best-known practices of other educational accrediting agencies.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Accrediting Bureau of Medical Technology Schools (1964-78) Accrediting Bureau of Medical Laboratory Schools (1968-78)
<b>Keywords</b>	accreditation; medical laboratory; dental; medical; health education; public health;

#### ACOUSTICAL SOCIETY OF AMERICA

	Avril Brenig, Standards Manager
	500 Sunnyside Blvd. Woodberry, New York 11797 (212) 661-9404
	Founded: 1929                      Standards Staff: 3
<b>Type of Organization</b>	Technical Society Standards Developer
<b>Standards Development</b>	Standards development since 1932 Organizer of 85 working groups and 700 participants active in standards development 65 active standards Processed through ANSI Draft standards available for review
<b>Standards Designation</b>	ANSI SX.x, ASA Catalog Numbers
<b>Government Adoption</b>	Some referenced by FDA
<b>Secretariats</b>	ANSI S1, Acoustics ANSI S2, Mechanical Shock and Vibration ANSI S3, Bioacoustics ANSI S12, Noise ISO/TC 108, Mechanical Vibration and Shock

<b>Scope</b>	A national society of physicists and engineers involved in the fields of electroacoustics, ultrasonics, architectural acoustics, psychological and physiological acoustics, music, noise and vibration control.
<b>Standardization Activities</b>	Maintains a standards program to publish standards, specifications, methods of measurement and test, and terminology in the fields of physical acoustics, including architectural acoustics, electroacoustics, sonics and ultrasonics, underwater sound, mechanical shock and vibration, psychological and physiological acoustics, including aspects of general acoustics, shock and vibration which pertain to biological safety, tolerance and comfort; and acoustical, environmental, and occupational noise. Cooperates with ANSI, ISO, and the U.S. National Committee of the International Electrotechnical Commission. Involves the government, industry, and the general public in voluntary standardization.
<b>Availability</b>	Sold directly and through ANSI
<b>Keywords</b>	noise control; mechanical shock; vibration; bioacoustics; environment; acoustics;

#### **ADHESIVES MANUFACTURERS ASSOCIATION**

J. Dollard Carey, Executive Director

111 East Wacker Drive  
Chicago, Illinois 60601  
(312) 644-6610

Founded: 1933

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	ANSI
<b>Scope</b>	Twenty-five member companies representing the major packaging adhesive manufacturing firms in the United States and twenty associate members representing supplier companies. Provides a forum for members to meet and exchange ideas for the advancement of the industry and its members, including research and development of better adhesives and applications. Sales and marketing techniques, employee health and safety, statistical analyses, and regular updates on the economic climate are other important functions.

**Standardization Activities** The Adhesives Manufacturing Association is not a standards developing organization; it works within the voluntary standards system to coordinate adhesive standards activities and act as the industry voice. Also monitors proposed regulations and standards at the federal, state, and local levels.

**Keywords** adhesives; packaging; solvents; manufacturing;

#### ADVANCED TELEVISION SYSTEMS COMMITTEE

Robert Hopkins, Executive Director

1776 K Street, NW  
Suite 300  
Washington, DC 20007  
(202) 828-3130

Founded: 1982

**Type of Organization** Professional Society  
Standards Developer

**Scope** Created by the Joint Committee for Inter-Society Coordination (JCIC). Coordinates the development of voluntary national technical standards for advanced television. Makes recommendations to the United States Department of State for its use in developing U.S. positions on various standards issues that are considered by international standards organizations. Membership includes television equipment manufacturers, broadcasters, cable companies, and associated trade and professional societies.

**Standardization Activities** Develops voluntary national standards for advanced television systems in the United states including generation, distribution, reception, and display of improved NTSC television systems, enhanced television systems, and high definition television (HDTV) systems. The secretariat for the ATSC is the National Association of Broadcasters (NAB).

**Formerly** National Television System Committee (NTSC)

**Keywords** electronics; communications; HDTV; high definition television; television;



## ADVISORY COMMISSION ON TEXTBOOK SPECIFICATIONS

Martin Blumberg, Technical Director

111 Prospect Street  
Suite 405  
Stamford, Connecticut 06901  
(203) 324-9670

**Type of  
Organization**

Advisory Commission  
Standards Developer

**Government  
Adoption**

ACTS standards are applied by most states for textbook purchases.

**Scope**

A federation of three organizations comprised of representation from the Association of American Publishers, Book Manufacturers Institute, and the National Association of State Textbook Administrators.

**Standardization  
Activities**

Developed the Manufacturing Standards and Specifications for Textbooks which establish quality standards for paper, printing, binding, and related details. These standards are intended as a guide to aid manufacturers, publishers, textbook administrators, and the general public. The Technical-Administrative Director profiles technical advice and answers queries related to the Commission's standards activities.

**Availability**

Distributed directly

**Keywords**

publishing; textbooks; education;

## AERONAUTICAL RADIO, INC.

B. Richard Climie, Sr. Director - Industry Activities

2551 Riva Road  
Annapolis, Maryland 21401  
(301) 266-4111

Founded: 1929

Standards Staff: 6

**Type of  
Organization**

Not-for-profit service organization  
Standards Developer

**Standards  
Development**

180 Form, Fit, and Function (performance) standards describe airborne electronic equipment for transport aircraft  
Draft standard and related reports available upon request  
None processed through ANSI

<b>Standards Designations</b>	ARINC Equipment Characteristics (specific equipment) ARINC Standards (basic system elements) ARINC Reports (guidance material)
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Secretariats</b>	Airlines Electronic Engineering Committee (AEEC)
<b>Scope</b>	A wholly owned subsidiary of ARINC Incorporated which is an ordinary stock corporation owned by major air transport operators. Operates on behalf of the users on a "not-for-profit" basis. Provides telecommunications services without discrimination to all users of the airspace within the United States. The cost of each service is directly recovered from the users of that service without "cross subsidy" from other users. Provides planning and coordination of user telecommunications needs with participation by all elements of aviation.
<b>Standardization Activities</b>	ARINC's voluntary standardization activities are conducted by the AEEC chaired by D.A. Martinec, Director of ARINC Avionics Engineering DEpartment. AEEC comprises user specialists from U.S., European and Pacific basin airlines, general aviation, U.S. Air Force and airline associations. The voluntary standards generally are drafted by a subcommittee comprised of users, equipment and airframe manufacturers, regulatory agencies and other interested parties. AEEC supervises the subcommittee work and adopts completed documents when appropriate.
<b>Availability</b>	Paper copies are available directly; microfilm from IHS
<b>Keywords</b>	avionics; navigation; surveillance; air-traffic-control; aviation; transportation; electronics; communication;

#### AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA

Barbara Boykin, Director Standardization Programs

1250 Eye Street, NW  
Washington, DC 20005  
(202) 371-8460

FAX: (202) 371-8470

Founded: 1919

Standards Staff: 4

<b>Type of Organization</b>	Trade Association Standards Developer
-----------------------------	--

<b>Standards Development</b>	Standards developer since 1938 130 members participating in standards activities 2020 active standards, including 140 metric  None processed through ANSI Draft standards available for review
<b>Standards Designation</b>	NAS, National Aerospace Standard NA, Metric NAS
<b>Government Adoption</b>	The Department of Defense has adopted nearly 700 National Aerospace Standards (NAS's).
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Secretariats</b>	ISO/TC 20 Aircraft and Space Vehicles International Coordinating Council of Aerospace Industries Associations, industry interface with the International Civil Aviation Organization American National Metric Council, Aerospace Sector Committee
<b>Scope</b>	A national trade association representing U.S. companies engaged in research, development, and manufacture of such aerospace systems as aircraft, missiles, spacecraft, and space launch vehicles; propulsion, guidance, and control systems for flight vehicles; and a variety of airborne and ground-based equipment essential to the operation of flight vehicles. Functions on national and international levels, representing its membership in a wide range of technological and other relationships with government agencies and the public.
<b>Standardization Activities</b>	Standardization activities are directed toward fulfilling user-defined requirements of the industry and its customers. A close working alliance exists with the Department of Defense, National Aeronautics and Space Administration, and other agencies and industry organizations. This liaison involves direct participation of government representatives in meetings and activities of the association's primary standards developing body, the National Aerospace Standards Committee. Technical input is solicited from all affected interests. Committees also review and make recommendations on government standards documents and participate in standards programs of ANSI, SAE, ASME, DoD, DoC, and FAA.  NAS's are used worldwide in high stress environments. They are applied on all types of aerospace and other high-technology systems, as well as critical non-aerospace applications such as rapid transit rail cars,



amusement park rides, high speed diesel engines, and racing cars. The NAS series is best known for its high strength, precision fasteners, which include bolts, screws, nuts, and rivets of all types in inch (NAS) and metric (NA) series. Other NAS's define high pressure hose, electrical connectors, splices and terminations, rod end bearings, and many other types of hardware and components.

Nearly 100 of NAS's specify requirements for manufacturing equipment used by aerospace and other industries, including numerically controlled (NC) and computer aided manufacturing (CAM) machine tools, NC welding and fabrication equipment. One of the first standards for an industrial robot was released as an NAS in 1982. NAS's have also been developed for airport planning, airworthiness requirements of cargo containers, flight testing, propellants, packaging, and other needs of the aerospace community.

<b>Availability</b>	Distributed through IHS, NSA, ATP, Global
<b>Formerly</b>	Aeronautical Chamber of Commerce Aircraft Industries Association (1945) Aerospace Industries Association (1959)
<b>Keywords</b>	aerospace; transportation; defense; testing; high-technology; engineering; manufacturing; fasteners; metric;

#### AIR AND WASTE MANAGEMENT ASSOCIATION

Martin E. Rivers, Executive Vice President

P.O. Box 2861  
Pittsburgh, Pennsylvania 15230  
(412) 232-3444

Founded: 1907

<b>Type of Organization</b>	Technical Society Works through other organizations to develop standards
<b>Representation</b>	ANSI Committee Z-21, Subcommittee on Standards for Domestic Gas-Fired Incinerators; ANSI Z-105, Air Cleaning Equipment Committee; ANSI Z-91, Committee of Installation Standards for Oil Burners and Oil Burning Equipment; ANSI Z-228, Incinerator Committee; International Organization for Standardization; Technical Committee ISO/TC 146; and Air Purity Intersociety Committee (Manual of Methods of Ambient Air Sampling Analysis).

<b>Scope</b>	A voluntary, cooperative, nonprofit, technical organization devoted to air pollution control and waste management. Membership of 9500 is composed of engineers, scientists, enforcement officials, industrial organizations, manufacturers of control equipment and instrumentation, scientific and educational institutions, and consultants.
<b>Standardization Activities</b>	Contributes to standards development through representation on various committees of standards-setting organizations.
<b>Keywords</b>	air pollution; environment; waste management;

#### **AIR CONDITIONING AND REFRIGERATION INSTITUTE**

Herbert Phillips, Vice President of Engineering

1501 Wilson Blvd, 6th Floor  
Arlington, Virginia 22209  
(703) 524-8800 Telex: 89-2351

Founded: 1953 Standards Staff: 10

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since its formation in 1953 150 members participate in standards activities Over 50 active standards processed through ANSI Draft standards available for review; interested parties are invited to participate in standards development
<b>Standards Designation</b>	ARI prefix
<b>Government Adoption</b>	Certain government agencies recommend purchase of products tested according to specific ARI Standards and/or ARI certified products.
<b>Certification</b>	Seventeen certification programs. Product performance certified by manufacturer, verified by ARI through an independent laboratory.
<b>Secretariats</b>	Chairmanship U.S. TAG ISO/TC 86, Refrigeration; Chairman, IEC/TC 61D
<b>Scope</b>	Trade association of manufacturers of air conditioning, heating, commercial and industrial refrigeration, excluding room air conditioners, household refrigerators and freezers, portable humidifiers and dehumidifiers.

**Standardization  
Activities**

Activities of ARI include: Equipment standards pertaining to physical and operating characteristics of items and equipment; Testing standards procedures for testing equipment in order to determine performance and operating characteristics; Rating standards containing provisions for converting data into general statements of capacity and performance which can be applied to a series of production items; Application standards specifying acceptable installation criteria, including initial selection of equipment.

Standards issued cover: unitary air-conditioning equipment and heat pumps, air-cooling and air-heating coils, forced circulation, free-delivery air-coolers for refrigeration, central station air-handling units, room air-induction units, centrifugal liquid-chilling packages, reciprocation chilling packages, liquid line driers, self-contained mechanically-refrigerated drinking water coolers, transport refrigeration units, and sound rating and application standards. ARI also has an International Standards Engineer to handle international standards activities.

**Availability**

Distributed directly and through IHS and Global

**Formerly**

Refrigeration Equipment Manufacturers Association (REMA)  
Air-Conditioning and Refrigeration Machinery Association (ACRMA)

**Keywords**

air-conditioning; refrigeration; heat pumps; water coolers; sound; cooling coils; heating coils; air handling; building;

**AIR CONDITIONING CONTRACTORS OF AMERICA**

James P. Norris, Executive Vice President

1513 16th Street, NW  
Washington, DC 20036  
(202) 483-9370

Founded: 1969

Standards Staff: 2

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1960  
50 members involved in standards development  
Five standards published  
None processed through ANSI



<b>Government Adoption</b>	HUD, FHA
<b>Scope</b>	An organization of heating, air conditioning, and refrigeration contractors, representing such contractors throughout the United States and in a limited number of foreign countries. Provides management training, industry relations and government relations services for its members.
<b>Standardization Activities</b>	Develops procedures and standards for residential and commercial heating and air conditioning system design, load calculation, and equipment selection. Standards specifically prepared for use by non-engineering design personnel, although used by others. Participates in ANSI Committee Z21 and various ASHRAE committees.
<b>Availability</b>	Sold directly
<b>Formerly</b>	Air Conditioning and Refrigeration Contractors of America National Warm Air Heating and Air Conditioning Association (Merged in 1969) National Environmental Systems Contractors Association (formed by Merger, 1969) Current name adopted 1978
<b>Keywords</b>	air-conditioning; heating; refrigeration; air handling; building;

#### **AIR DISTRIBUTION INSTITUTE**

	Patricia H. Keating, General Manager
	4415 West Harrison Street Suite 242-C Hillside, Illinois 60162 (708) 449-2933 FAX: (708) 449-0837
	Founded: 1947
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Participated in the development and updating of Simplified Practice Recommendation R207 since 1947.
<b>Scope</b>	A national trade association representing U.S. companies engaged in research, development, and manufacture of air distribution equipment, as pipe, duct, and fittings for warm air heating and air conditioning, for use in residential single and multi-family dwellings.

<b>Standardization Activities</b>	Develops production distribution and use standards for pipe, duct, and fitting for warm-air heating and air conditioning. Produces a numerical data system for identification of products as manufactured by its members, in concert with North American Heating and Air Conditioning Wholesalers. Currently updating simplified practices and recommendations.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	air handling;

#### AIR MOVEMENT AND CONTROL ASSOCIATION

Peter N. Hanly, Executive Vice President

30 West University Drive  
Arlington Heights, Illinois 60004  
(212) 394-0150 Telex: 27-0650 AMCA ARHT

Founded: 1917

Standards Staff: 3

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1960 195 members participating in standards activities 27 active standards, including 7 metric 2 processed through ANSI Draft standards available for review
<b>Standards Designation</b>	AMCA prefix
<b>Certification</b>	Products which have been performance rated in accordance with AMCA standards are eligible to be licensed under the Certified Rating Program and are identified by the display of the AMCA Certified Ratings Seal.
<b>Secretariats</b>	ISO/TC 117 Industrial Fans SC2 (Sound Ratings); ANSI/TAG for ISO/TC 117 since 1988
<b>Scope</b>	An international trade association of manufacturers of fans, louver, and dampers used in industrial, commercial, residential, and institutional air handling systems. Includes more than 100 manufacturers in the USA and Canada and some 20 countries overseas. Promotes and furthers the interests of the public and

manufacturers of air moving and control devices throughout the world. Promotes the use of voluntary standards and technical documents to help purchasers, specifiers, and users with selection, application, and safe and efficient use of those products.

**Standardization  
Activities**

Aims at the development of accurate and reliable testing procedures which are adopted as standards and used as a basis for rating the industry's products. Adopts standards to measure the performance of all air moving devices and the sound power of this equipment, in addition to air curtains and industrial ceiling fans. These include relating pressure drop and/or water penetration to the air flow rate of louvers, dampers, and shutters; leakage rate of dampers at a given pressure difference. Other technical standards cover a wide variety of subjects including nomenclature, drive arrangements, sizes, classification for spark resistant construction, operating limits for centrifugal fans, and inlet box positions for centrifugal fans.

Works closely with ASHRAE. Developed "Laboratory Methods of Testing Fans for Rating," a joint standard with ASHRAE. Works with ISO/TC 117 to develop an international standard for air performance testing. Reviews and makes recommendations on standards and documents of ASHRAE, ASME, ISO, NFPA, and UL.

**Availability**

Sold directly. Joint ASHRAE standards also available through ASHRAE.

**Formerly**

National Association of Fan Manufacturers (1955)  
The Power Fan Manufacturers Association (1955)  
Industrial Unit Heater Association (1955)  
Home Ventilation Institute (Merged 1984)

**Keywords**

air curtain; blower; damper; fan; louver; shutters;  
noise control; air handling; building; residential  
fans;

**AIR TRANSPORT ASSOCIATION OF AMERICA**

Ed Thomas, Vice President, Engineering and Maintenance

1709 New York Avenue, NW  
Washington, DC 20005  
(202) 626-4035

Telex: 89655 ATA WSH

Founded: 1936

**Type of  
Organization**

Trade Association  
Standards Developer



<b>Standards Development</b>	32 members participate in standards development
<b>Standards Designation</b>	ATA prefix MSG-3 Airline Manufacturers Maintenance Program Planning Document WATOG World Airline Technical Operations Glossary ATA/IATA Interline Communications Manual S2000 Specification
<b>Secretariats</b>	ATA provides the secretariat for all of the above standards except the ATA/IATA Interline Communications Manual which is provided by the IATA.
<b>Scope</b>	A national trade association for 30 U.S. scheduled air carriers and two Canadian scheduled air carriers which are associate members. Provides services in operations, technical, traffic, government affairs, and finance fields. Functions on national and international levels, representing its membership before government bodies, the public, and associated industries.
<b>Standardization Activities</b>	Develops and maintains specifications and guidelines for use by airlines and suppliers in maintenance, supply, communications, and other programs. Primarily directed toward meeting the needs of airlines and those organizations, both public and commercial, which interface with the scheduled air carriers. Standards development requires national and international coordination between user airlines and suppliers through the ATA committee structure.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	transportation; communications; maintenance; aviation;

#### AIRCRAFT LOCKNUT MANUFACTURERS ASSOCIATION

John Shiffert, Manager

2017 Walnut Street  
Philadelphia, Pennsylvania 19103  
(215) 569-3650 FAX: (215) 569-1410

Founded: 1940 Standards Staff: 1

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
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**Representation** All member firms are active in consultant and liaison roles with Aerospace Industries Association, SAE (E21-E25), and other industry and military groups. Individual companies are active in ISO and other standardization groups.

**Scope** An association of manufacturers, responding to standards formulated by various customer organizations.

**Standardization Activities** Standardization activities of ALMA are directed to the conformation and performance criteria for aerospace locknuts.

**Keywords** locknuts; aerospace; aviation; fasteners; transportation;

#### AIRCRAFT OWNERS AND PILOTS ASSOCIATION

John L. Baker, President

Government and Technical Affairs Division  
421 Aviation Way  
Frederick, Maryland 21701  
(301) 695-2000 Telex: 893445  
(202) 479-4050 FAX: (301) 695-2010

Founded: 1939

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Scope** More than 300,000 pilots and aircraft owners interested in making flying safer, more economical, and enjoyable.

**Standardization Activities** Participates in activities of the Radio Technical Commission for Aeronautics which develops Minimum Operational Performance Standards (MOPS) for airborne electronic devices and systems. MOPS are used by the Federal Aviation Administration (FAA) and others to standardize the function of devices and systems used in the National Airspace System. Participates with other organizations whose activities affect pilots.

**Keywords** aviation; avionics; airborne electronics; transportation;

## ALLIANCE OF AMERICAN INSURERS

Franklin W. Nutter, President

1501 Woodfield Road  
Suite 400 West  
Schaumburg, Illinois 60194-4980  
(312) 490-8500

Founded: 1922

Standards Staff: 1

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	80 Representatives serving on 100 standards committees of ANSI, NFPA, ASTM, and ASME.
<b>Scope</b>	A membership organization of 160 property/casualty insurers addressing the spectrum of insurance related issues.
<b>Standardization Activities</b>	Financially supports, through ANSI and NFPA, the consensus development of safety and health standards, as well as provides technical representatives to assist in formulating standards. To maximize the usefulness of the standards alliance, representatives urge performance standards where practicable. Standards are used in training seminars and in evaluating hazards and risks.
<b>Formerly</b>	American Mutual Insurance Alliance National Association of Mutual Casualty Companies
<b>Keywords</b>	insurance; loss control; fire protection; safety; industrial hygiene;

## ALUMINUM ASSOCIATION

Peter Pollak, Manager - Product Standards and Electrical Services

900 19th Street, NW  
Washington, DC 20006  
(202) 862-5138

Telex: 710-822-1129

Founded: 1933

Standards Staff: 2

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	7 active standards Processed through ANSI



<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Secretariats</b>	ANSI Standards Committee H35 on Aluminum and Aluminum Alloys
<b>Scope</b>	<p>Serves the public as a source of noncommercial, industry-wide information on aluminum and the aluminum industry. Membership embraces producers of primary ingot, sheet, and plate; and leading extruders, foundries, secondary smelters, forging firms, and producers of aluminum electrical conductors. Represents virtually all U.S. primary aluminum production and 85 percent of semi-fabricated aluminum product shipments.</p> <p>Functions include developing, publishing, and distributing technical data, collecting and publishing industry statistics, and conducting school programs and industry seminars.</p>
<b>Standardization Activities</b>	<p>Activities of the association are the basis for the majority of government, American Society for Testing and Materials, company, and other specifications for aluminum and aluminum alloy products. Specific publications include: Aluminum Standards and Data (published biennially), Drafting Standards - Aluminum Extruded and Tubular Products, Designation System for Aluminum Finishes, Specifications for aluminum Structures, and Standards for Aluminum Standard Permanent Mold Castings. The association also publishes, in cooperation with the American Society for Metals, the European Aluminum Association, the Japan Light Metals Association, and the Aluminum Development Council (Australia), a monthly abstract journal of the world's technical literature on aluminum.</p>
<b>Availability</b>	Directly through ANSI
<b>Keywords</b>	aluminum; alloys; metallurgy; materials;

#### **AMERICAN ACADEMY OF PEDIATRICS**

James E. Strain, M.D., Executive Director

141 Northwest Point Boulevard  
Elk Grove Village, Illinois 60009  
(312) 228-5005

Founded: 1930

<b>Type of Organization</b>	Professional Society Health Care Guidelines Development
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<b>Scope</b>	The Academy unites 37,000 member pediatricians throughout the Americas to ensure for all young people the attainment of their full potential for physical, emotional, and social health. To this end, the AAP dedicates its resources to professional education, advocacy for children, representation of pediatricians, public education, access to health care and service to children.
<b>Standardization Activities</b>	The AAP publishes statements and manuals to help health professionals in their treatment of children. These recommendations have been used by regulatory agencies to establish guidelines for pediatric care. These pertain to perinatal care, pediatric nutrition, out-of-home day care, and treatment of infectious diseases, guidelines for health supervision, accident and poison prevention, school health, sports medicine, drug therapies and toxicities, and environmental hazards.
<b>Availability</b>	On request (order) from Publications Department
<b>Keywords</b>	children; guidelines; perinatal care; general health care;

**AMERICAN ALLIANCE FOR HEALTH, PHYSICAL EDUCATION, RECREATION AND DANCE**

Charlie Hartman, Executive Vice President

1900 Association Drive  
Reston, Virginia 22091  
(703) 476-3400

Founded: 1885

<b>Type of Organization</b>	Professional Society Standards developer
<b>Certification</b>	Certification programs are implemented at the state level through activities of AAHPERD members. Professional preparation programs in colleges are developed using AAHPERD standards.
<b>Scope</b>	A voluntary professional organization for education in the field of recreation and dance. Promotes the improvement of education through such professional services as consultation, periodicals and special publications, leadership development, determination of standards, public information, and research.
<b>Standardization Activities</b>	Standards are national in scope and are promoted through the education of teachers and professionals in allied fields. Publishes over 30 books and pamphlets

containing guidelines and standards. With funding from the Department of Health, Education and Welfare, prepared Guideline for Professional Preparation for Personnel Involved in Physical Education and Recreation for the Handicapped. Cooperates with other organizations such as the Association for the Advancement of Health Education, National Association for Sport and Physical Education, and the American Association for Leisure and Recreation.

**Keywords** physical education; health care; recreation; dance; physically handicapped;

**AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION**

John Gurniak, Technical Director

2700 River Road  
Suite 118  
Des Plaines, Illinois 60018  
(708) 699-7310 FAX: (708) 299-7744

Founded: 1936

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1936  
Processed through ANSI

**Standards  
Designations**

ANSI/AAMA prefix

**Government  
Adoption**

Standards are referenced by HUD in the M.P.S., and are accepted by the Department of Defense.

**Certification**

Sponsors certification program for aluminum and vinyl windows and doors; also sponsors a program for manufactured housing to comply with FMH CSS/HUD requirements.

**Scope**

A trade association of approximately 260 firms engaged in the manufacture and sale of architectural building components and related products.

**Standardization**

ANSI/AAMA Voluntary Standards currently exist for aluminum prime windows and doors, and sliding glass doors covering characteristics, such as air infiltration, water resistance, windload, structural strength, component requirements, and other quality requirements.



Other Voluntary Standards cover energy balance calculating procedures, recommended test methods, and coatings and finishes for storm windows and doors, aluminum siding, hardware, and sealants.

Standards undergo constant review and are updated to reflect technical advances in the industry.

**Keywords** aluminum; windows; doors; siding; building;

**AMERICAN ASSOCIATION FOR CLINICAL CHEMISTRY**

Ronald E. Whorton, M.P.H., Executive Vice President

2029 K Street, NW  
Washington, DC 20006  
(202) 857-0717

Founded: 1948

**Type of Organization** Scientific/Professional Society  
Works through other organizations to develop standards

**Scope** A nonprofit organization of professional chemists who specialize in clinical chemistry.

**Standardization Activities** The Standards Committee carries out background development of standard methodology and materials, and collaborates closely with the International Federation of Clinical Chemistry and the National Committee on Clinical Laboratory Standards, particularly in programs on nomenclature, proteins, and enzymes. Maintains close alliance with the clinical laboratory programs of the U.S. National Institute of Standards and Technology in developing specifications for new standard reference materials, and with the Center for Disease Control and the Food and Drug Administration in evaluating methods and performance in the field. Methods and recommendations are published in the journal, Clinical Chemistry, or in the book series, Standard Methods in Clinical Chemistry.

**Formerly** The American Association of Clinical Chemists (1975)

**Keywords** clinical chemistry; laboratory testing;

## AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION

John W. Locke, President

656 Quince Orchard Road, Suite 704  
Gaithersburg, Maryland 20878-1409  
(301) 670-1377 FAX: (301) 869-1495

Founded: 1978

### **Type of Organization**

Scientific Organization  
Standards Developer

### **Standards Developments**

260 active members  
190 accreditation actions in 34 states, Guam and Canada  
11 fields of testing

### **Certification**

Accredits laboratories on a voluntary basis.  
Accreditation is renewed on a two year interval with  
annual review documentation.

### **Scope**

Accreditation for testing laboratories and/or  
inspection agencies on the basis of technical  
competence. Membership available to individuals,  
educational, scientific, engineering or technical  
society, governmental, corporations or trade  
associations. Fields of testing include acoustical,  
biological, chemical, construction materials,  
electrical, environmental, geotechnical, mechanical,  
metrology, nondestructive, and thermal. Special  
programs include asbestos, automotive, coal, metals,  
metal fasteners, paint, radon, thermal (insulation  
materials), thermal (wood heaters), and windows and  
doors.

### **Standardization Activities**

Employs ISO Guide 25 for general criteria. Specific  
criteria for each field of testing are developed with  
the use of national standards. Participates in U.S.  
delegation to the International Laboratory  
Accreditation Conferences.

### **Keywords**

testing; accreditation; laboratory;

## AMERICAN ASSOCIATION FOR RESPIRATORY CARE

Sam P. Giordano, Executive Director

11030 Ables Lane  
Dallas, Texas 75229  
(214) 243-2272

Founded: 1947

<b>Type of Organization</b>	Professional Society Standards Developer
<b>Standards Development</b>	Develops standards concerning administrative, clinical, and technical aspects of respiratory care. Standards available for review.
<b>Standards Designation</b>	AARC prefix
<b>Scope</b>	The sole developer of clinical standards for respiratory care practices. Cooperates to develop administrative standards with such organizations as the Joint Commission of Accreditation of Hospitals. Develops technical standards in cooperation with the American National Standards Institute (ANSI), the Association for the Advancement of Medical Instrumentation (AAMI), and the National Fire Protection Association (NFPA). Also develops clinical standards in cooperation with appropriate regulatory agencies and sponsoring organizations.
<b>Standardization Activities</b>	Maintains a Standards Committee which responds to requests for standard development from various groups. The Standards Committee also reviews existing data and develops documents without outside requests for such activity. Standards developed in cooperation with other organizations and approved by AARC directors are officially endorsed and published. All standards developed are reviewed every five years. Amends documents prior to mandatory review period if significant changes have occurred to warrant such amendments.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	American Association for Respiratory Therapy
<b>Keywords</b>	respiratory care; respiratory therapy; clinical practice; health care;

#### AMERICAN ASSOCIATION OF ADVERTISING AGENCIES

John E. O'Toole, President

666 Third Avenue  
New York, NY 10017  
(212) 682-2500

Founded: 1948

<b>Type of Organization</b>	Trade Association Standards Developer
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<b>Standards Development</b>	Standards developer since 1948 5 active standards
<b>Scope</b>	Fosters, strengthens and improves the advertising agency business; advances the cause of advertising; and aids member agencies to operate more efficiently and profitably.
<b>Standardization Activities</b>	Cooperates with other industry organizations to develop standards for the graphic arts industry dealing with magazine publication. They are Recommended Standard Specifications for Advertising Reproduction Material in Magazine Letterpress Wet Printing; Standard Color Control Bars, approved by the American Photoengravers Association; and AAAA/MPA Standard 4-Color Process Proofing Inks, issued by the National Association of Printing Ink Makers; Production Operating Communication Standards for Magazine Paper Mills, Printers and Publishers; and Recommended Standards Specifications for advertising Production Material for Magazine Web Offset Printing issued by AAAA/MPA/American Business Press (ABP). These standard have the common purpose of improving the reproduction of advertisements in magazines.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	magazines; publishing; advertising; communications; printing;

#### **AMERICAN ASSOCIATION OF BIOANALYSTS**

	David Birenbaum, Administrator  818 Olive, Suite 918 St. Louis, Missouri 63101 (314) 241-1445  Founded: 1954
<b>Type of Organization</b>	Professional Society Standards Developer
<b>Certification</b>	Active in certification of bioanalyst laboratory directors, managers, and supervisors as a sponsoring organization of the American Board of Bioanalysis.
<b>Scope</b>	Professional organization of scientists and bioanalyst laboratory directors which devotes its efforts to clinical laboratory procedure and testing.

<b>Standardization Activities</b>	Maintains a national program of external quality control known as The Proficiency Testing Service, a program in which independent laboratories, hospitals, and physician office laboratories must participate as a condition for Medicare and CLIA approval. In the Proficiency Testing Service, AAB is involved in developing, handling, and shipping various materials, and is required to examine such materials for stability. Included also are control and standards for use in clinical laboratory disciplines. AAB's program is under the guidance of the Board of Scientific Advisers.
<b>Formerly</b>	Merger of National Association of Clinical Laboratories and American Bioanalysts Association.
<b>Keywords</b>	bioanalysis; clinical laboratory; testing; public health;

#### AMERICAN ASSOCIATION OF BLOOD BANKS

Johann Hoffman, Executive Director

1117 North 19th Street, Suite 600  
Arlington, Virginia 22209  
(703) 528-8200 FAX: (703) 527-8036

Founded: 1947

<b>Type of Organization</b>	Professional Society Standards Developer
<b>Standards Development</b>	Standards developer since 1958 600 members participating in standards activities 279 active standards None processed through ANSI
<b>Standards Designation</b>	AABB prefix
<b>Government Adoption</b>	Department of Health and Human Services, Food and Drug Administration has adopted AABB Standards in the CFR Title 21. The Department of Defense has adopted AABB Standards and stocks them in their hospital and blood collecting facilities. Several state health departments have adopted AABB Standards as basis for regulation.
<b>Certification</b>	Inspection and Accreditation Program which, through inspecting and accrediting facilities, strives to improve the quality and safety of transfusions, and assists the medical director of a blood bank or transfusion service in determining whether methods,

procedures, and personnel meet established AABB standards. Several states accept AABB inspections as equivalent to their state inspections for licensing requirements.

<b>Scope</b>	A professional, nonprofit scientific and administrative association for those individuals and institutions engaged in the many facets of blood banking. Membership includes physicians, scientists, medical technologists, administrators, and blood bankers. Serves as the focus for the advancement of the professional practice of blood procurement, transfusion therapy, and related fields.
<b>Standardization Activities</b>	Maintains Committee on Standards which develops and publishes standards of minimal acceptance practice applicable to relevant aspects of blood banking; maintains liaison with other organizations including CAP; Health Care Finance Administration (HCFA), and the Food and Drug Administration (FDA); reviews and approves methods which deviate from standards, and reviews the applications of those institutions requesting such approval; and reviews histocompatibility studies for inclusion in standards.
<b>Availability</b>	Distributed directly and through the DoD Military Blood Catalogue
<b>Keywords</b>	blood banks; transfusion; public health;

#### AMERICAN ASSOCIATION OF CEREAL CHEMISTS

Raymond J. Tarleton, Executive Vice President

3340 Pilot Knob Road  
St. Paul, Minnesota 55121  
(612) 454-7250

Founded: 1915

<b>Type of Organization</b>	Scientific Society Standards Developer
<b>Standards Development</b>	Standards developer since 1924 250 members active in standards development 32 technical committees assist in standards work 350 standard methods and procedures
<b>Standards Designations</b>	AACC Approved Methods 00-00
<b>Government Adoption</b>	Largely used by the Federal Grain Inspection Service of the USDA and FDA in the area of cereals.



<b>Certification</b>	Provides certification program for "Sanitation Analyst." Specialized area for quantitative and qualitative analysis of food products for possible contamination by insects, rodents, or other foreign matter of animal origin.
<b>Scope</b>	An international society which develops and standardizes analytical methods used in the milling and baking industries. Expanded in latter years to cover entire cereal processing industry and to advance and encourage research on all cereal grains and related materials. Methodology is related to all needs of the cereal scientist, from sampling, inorganic and organic ingredients, and microbiology, to chemical residues, additives, and sanitation.
<b>Standardization Activities</b>	Develops methodology rather than standards per se. Cooperates with the Association of Official Analytical Chemists, American Oil Chemists Society and ASTM. Subjects include analytical methods and apparatus for flours and dough, flour specifications, and sanitation methods.
<b>Availability</b>	Sold directly or through bookstores
<b>Keywords</b>	cereals; cereal chemistry; grain; grain storage; nutrition; food; agriculture; sanitation;

#### AMERICAN ASSOCIATION OF MOTOR VEHICLE ADMINISTRATORS

John Strandquist, CAE, Executive Director

4200 Wilson Boulevard  
Suite 600  
Arlington, VA 22203  
(703) 522-4200

Founded: 1933

Program Staff: 5

<b>Type of Organization</b>	Voluntary Nonprofit Association of State and Provincial Officials Works through other organizations to develop standards
<b>Representation</b>	Members and staff representatives active in standards setting committees of SAE, ANSI, ASTM, Canadian Standards Association, National Highway Traffic Safety Administration (NHTSA), CPSC, Economic Commission for Europe (ECE), and Federal Highway Administration (FHWA).

<b>Scope</b>	An organization responsible for the administration and enforcement of motor vehicle and traffic laws in the United States and Canada. Provides the principal forum where state and provincial officials exchange information on developments in the industry and maintain liaison between industry and federal government.
<b>Standardization Activities</b>	<p>Activities are directed toward promoting uniform laws and regulations for motor vehicle administration, traffic law enforcement, highway safety, and the standardization and uniform enforcement of these laws. Principal functions are in the areas of: model program development in disciplines relating to motor vehicle administration, police traffic services, and highway safety; an information clearinghouse; and the industry spokesman.</p> <p>Services include advice and counsel in various facets of driver services, vehicle services, safety equipment services, commercial motor carrier activities, including interstate and provincial reciprocity, and program planning and systems development.</p> <p>With the dissolution of the Vehicle Equipment Safety Commission, AAMVA serves as the repository for the series of standard performance requirements and test procedures for motor vehicles and equipment developed by the commission.</p>
<b>Keywords</b>	motor vehicle; automobile; safety; traffic laws; transportation; government officials;

#### AMERICAN ASSOCIATION OF NEUROLOGICAL SURGEONS

see JOINT COMMITTEE ON DEVICES AND DRUGS

#### AMERICAN ASSOCIATION OF NURSERYMEN

Lawrence E. Scovotto, Executive Vice President

1250 Eye Street, NW  
Washington, DC 20005  
(202) 789-2900

Founded: 1876

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Designation</b>	American Standards for Nursery Stock ANSI-Z60.1 - 1989

<b>Scope</b>	Enables nurserymen to work on those projects and activities which foster the general welfare of the industry and their customers.
<b>Standardization Activities</b>	Develops grades and standards for the use of nurserymen, landscape architects, landscape contractors, governmental agencies, and others preparing lists and specifications for trading in trees, shrubs, roses, vines, fruit trees, small fruit, bulbs, tubers, and forest tree seedlings through its Horticulture Standards Committee. Standards contain height, caliper, root size, root ball, container size and various other standardized means of describing nursery plants.
<b>Availability</b>	Distributed directly and through ANSI
<b>Keywords</b>	horticulture; nursery plants; agriculture;

#### **AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS**

Fred A. Dix, Jr., Executive Director

1444 South Boulder  
Tulsa, Oklahoma 74119  
(918) 584-2555

Founded: 1917

<b>Type of Organization</b>	Professional Society Standards Developer
<b>Government Adoption</b>	Code of Stratigraphic Nomenclature has been adopted by the American Commission of Stratigraphic Nomenclature.
<b>Scope</b>	A professional society of geologists engaged in the exploration for hydrocarbons research and teaching.
<b>Standardization Activities</b>	Maintains two committees active in standardization activities. The Stratigraphic Correlations Committee publishes a Code of Stratigraphic Nomenclature. The Committee on Statistics of Drilling works with the American Petroleum Institute and various government agencies to develop a standardized form for recording data on oil and gas drilling. Cooperates with other organizations to develop standard definitions for the petroleum industry.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Southwest Association of Petroleum Geologists (1917)



**Keywords** petroleum; geology; energy; data processing;

**AMERICAN ASSOCIATION OF POISON CONTROL CENTERS**

Dr William O. Robertson, President

Seattle Poison Center  
Children's Hospital and Medical Center  
4800 Sand Point Way, NE  
Seattle, Washington 98105  
(206) 526-2121

Founded: 1957

**Type of Organization** Trade Association  
Standards Developer

**Scope** Promotes and encourages the development of improved methods for the prevention and treatment of acute poisoning, and furthers the exchange of information about such activities among its members.

**Standardization Activities** Maintains a Committee on Public Educational Activities which develops material that will be of value to poison control and information centers in educating the lay public about the hazards of, and the prevention of, acute poisoning in and about the home.

A Committee on Personnel Proficiency develops aids for the training of professional personnel in the prevention of acute poisoning. The Committee is responsible for preparing and administering a certification examination for poison information specialists.

A committee on Regional Poison Control Center Certification prepares standard recommended practices for poison control and poison information centers. These have been accepted as standard recommended practices for the establishment and operation of properly qualified centers.

**Availability** Distributed directly

**Keywords** poison control; education; medical certification;

## AMERICAN ASSOCIATION OF PSYCHIATRIC SERVICES FOR CHILDREN

Sydney Koret, Ph.D., Executive Director

1200-C Scottsville Road, Suite 225  
Rochester, New York 14624  
(716) 235-6910

Founded: 1948

Type of Organization	Professional Society Standards Developer
Certification	AAPSC provides accreditation to organizations providing children's mental health service.
Scope	Membership consists of 160 child psychiatric services that foster prevention of mental and emotional disorders and further the development and application of clinical knowledge dealing with child mental health as well as individual practitioners (child psychiatrists, psychologists, social workers, nurses, etc.)
Standardization Activities	Provides leadership in defining and maintaining standards of clinical practice, organization of treatment, and specialized training. To be eligible for accreditation, a child psychiatric facility must provide proof of its continuity of service, together with background of its key staff members. The AAPSC Division of Accreditation reviews treatment approaches, staff competence and quality, quality care and physical plant in a site visit, conducted by trained visitors. The Division, consisting of mental health disciplines, reviews and determines eligibility for accreditation.
Keywords	mental health; psychiatric services; children; health care;

## AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS

Francis B. Francois, Executive Director

444 North Capitol Street, NW  
Suite 225  
Washington, DC 20001  
(202) 624-5800

Founded: 1914

Type of Organization	State Government Association Standards Developer
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<b>Standards Designations</b>	Materials Specifications: M-XXX Test Methods: T-XXX Recommended Practices: R-XXX
<b>Government Adoption</b>	The Federal Highway Administration has adopted AASHTO standards by reference in the Code of Federal Regulations.
<b>Certification</b>	Operates an accreditation program for state highway and transportation officials. The AASHTO Materials Reference Laboratory (AMRL), established at the National Institute of Standards and Technology, promotes uniformity in the testing of construction materials by public or private sector laboratories serving the construction field.
<b>Scope</b>	Fosters development, operation, and maintenance of a nation-wide integrated transportation system and cooperates with other appropriate agencies in considering matters of mutual interest in serving the public need.
<b>Standardization Activities</b>	<p>Publishes The Standard Specifications for Transportation Materials and Methods of Sampling and Testing, containing 176 specifications and 9 recommended practices. Maintains a Subcommittee on Material which has members representing each of the 50 States, the Commonwealths of Puerto Rico and the Northern Mariana Islands, the District of Columbia, the United States Department of Transportation, the New Jersey Turnpike Authority, 6 Canadian Provinces and 2 territories.</p> <p>Publishes Interim Specifications which have the same status as standards of the American Association of State Highway and Transportation Officials, but are tentative revisions to be approved by the Subcommittee prior to issuance as standards of the Association.</p> <p>Also publishes: Standard Specifications for Highway Bridges; A Policy on Geometric Design of Rural Highways; and A Policy on Design of Urban Highways and Arterial Streets.</p>
<b>Availability</b>	Sold directly and through IHS
<b>Formerly</b>	American Association of State Highway Officials (1973)
<b>Keywords</b>	transportation; highways; construction materials; government officials;



## AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS

William R. Martin, Executive Director

P.O. Box 12215  
Research Triangle Park, North Carolina 27709  
(919) 549-8141

Founded: 1921

Standards Staff: 2

### **Type of Organization**

Technical Society  
Standards Developer

### **Standards Development**

Standards Developer since 1921  
1100 members participating in standards activities  
138 active standards  
Most AATCC Test Methods become American National  
Standards through ANSI  
Drafts of proposed or revised test methods available  
for review

### **Standards Designation**

AATCC prefix

### **Government Adoption**

Various government agencies have either adopted or  
adapted a number of AATCC test methods.

### **Certification**

No certification, qualification, or accreditation  
programs

### **Secretariats**

ISO/TC 38/SC1, Colour fastness and Colour measurement  
ISO/TC 38/SC2, Laundering, Drycleaning and Finishing  
USA TAG for ISO/TC 38-Textiles

### **Scope**

Promotes increased knowledge of the application of dyes  
and chemicals in the textile industry; encourages, in a  
practical way, research on chemical processes and  
materials of importance to the textile industry; and  
promotes the exchange of professional knowledge.

Membership includes many leading textile chemists and  
colorists in nearly every state and 50 countries. Some  
300 companies support the association as corporate  
members.

### **Standardization Activities**

Internationally recognized for its standard methods of  
testing dyed and chemically treated fibers and fabrics  
to measure such performance characteristics as  
colorfastness to light and washing, crease resistance,  
shrinkage, wash-and-wear, water resistance,  
flammability, and other conditions to which textiles  
may be subjected. Assures textile quality and  
performance by controlled AATCC test methods.

Maintains cooperative relationships with other associations and agencies of the federal government. Participates in the International Organization for Standardization (ISO) in an effort to bring about worldwide uniformity in testing procedures.

Publishes Textile Chemist and Colorist, issued monthly, and an annual Technical Manual containing the association's test methods. Collaborates with the British Society of Dyers and Colourists on numerous projects.

**Availability**

Distributed directly and through IHS and Global

**Keywords**

textiles; chemistry; dyes; finished; colorfastness; flammability; laboratory testing;

**AMERICAN AUTOMOBILE ASSOCIATION**

J.B. Creal, President  
100 AAA Drive  
Heathrow, Florida 32746-5064  
(407) 444-8000 Telex: 89-9485

Founded: 1902

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Scope**

Federation of 154 motor clubs serving more than 30.5 million members throughout the United States and Canada. A nonprofit, tax paying organization, which provides auto and travel related services to its members, and works on behalf of the best interests of the motoring and traveling public to promote safer and more enjoyable travel.

**Standardization  
Activities**

Participates in the development of proposed standards of various types relating to increasing the safety and convenience of pedestrians in traffic. Develops detailed methods and various proposed standards for training new drivers. Represented on committees of the Transportation Research Board, National Safety Council, and National Committee on Uniform Traffic Laws and Ordinances whose major purpose is to develop standards which pertain to highway and traffic safety.

Cooperates with other organizations to develop standards for the operation of school safety patrols and adult crossing guards, and in standards activities in the fields of traffic law enforcement, traffic training procedures, and automotive engineering.

**Keywords** motor vehicle; transportation; traffic laws; highway safety;

**AMERICAN BANKERS ASSOCIATION**

Cynthia L. Fuller, Administrator, Standards Department

1120 Connecticut Avenue, NW  
Washington, DC 20036  
(202) 663-5284

Founded: 1875

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

23 active standards  
All processed through ANSI

**Standards  
Designation**

ANSI X9.x

**Secretariats**

Accredited Standards Committee, X9, Financial Services Administrator, U.S. Technical Advisory Group ISO/TC 68, Banking and Related Services

**Scope**

A national trade and professional association for 13,000 commercial banks. Enhances the ability of America's banks and bankers to serve the needs and desires of the American public.

**Standardization  
Activities**

X9 develops standards in the area of financial services operations, including electronic retail financial transactions, checks and paper documents, credit, securities, and data security and bank-to-bank EDI. Also acts as the USA, Technical Advisory Group to TC68 in international standards development for the financial services industry. Published standards include: Magnetic Stripe Data Content for Track 3 - X9.1; Interchange Message Specifications for Debit and Credit Card Message Exchange Among Financial Institutions - X9.2; Specifications for Check Endorsements - X9.3; Financial Institution Numbering System (FINS) - X9.5; Securities Identification System (CUSIP) - X9.6; Bank Check Standard Background and Numerical Convenience amount Field X9.7; Personal Identification Number (PIN) Management and Security - X9.8; Financial Institution Message Authentication (Wholesale)- X9.9; Specifications for Fully Registered Municipal Bonds - X9.12; Specifications for Placement and Location of MICR Printing - X9.13; Specifications for Securities Transaction Interchange Forms - X9.14; Securities -- Standard Format for Message Types -



X9.16; Paper Specifications for Checks - X9.18; Financial Institution Key Management (Wholesale) - X9.17; Financial Institution Retail Message Authentication - X9.19; Securities -- International Delivery System - X9.20; Vocabulary and Data Elements for Wholesale Fund Transfers and Related Services - X9.21; Specifications for Standard Telex Formats for Wholesale Financial Services Messages - X9.22; Encryption of Wholesale Financial Messages - X9.23; Tender Option (PUT) Letter of Transmittal - X9.25; Print Specifications for Magnetic Ink Character Recognition - X9.27; Guideline for the Identification of Dividend and Interest Payments - X9/TG-1.

**Availability** Distributed directly and through ANSI

**Keywords** banking; financial services; finance;

#### AMERICAN BOAT AND YACHT COUNCIL

Lysle B. Gray, Executive Director

405 Headquarters Drive, Suite 3  
P.O. Box 747  
Millersville, Maryland 21108  
(301) 923-3932

Founded: 1954

Standards Staff: 5

**Type of Organization** Technical Society  
Standards Developer

**Standards Development** 70 standards currently active  
20 project technical committees  
220 committee members are active in standards development

**Standards Designation** ABYC prefix

**Government Adoption** U.S. Coast Guard References ABYC standards

**Scope** An independent, nonprofit, membership organization representative of recreational boating including members from industry, insurance, government, and the boating public. Membership consists of 1800 individuals, corporations and associations.

**Standardization Activities** Develops safety standards and recommended practices for the design, construction, equipage, and maintenance of boats and their related accessories. Standards are generated by project technical committees and reviewed

by the ABYC Technical Board and Board of Directors prior to publication. Standards provide a basis for certification programs of other organizations and are used as source material by the U.S. Coast Guard in their development of safety regulations under the Boating Safety Act of 1971.

Individual members work voluntarily through committees and boards to implement the boating safety standards program. In addition, liaison is maintained with other organizations by means of memberships on NFPA 302, Subcommittee on Motor Craft; SAE Marine Technical Committee; UL Marine Engineering Council; National Safe Boating Council; National Boating Safety Advisory Council; Rules of the Road Advisory Council; ASTM F-15.10, Gasoline Containers for Consumer Use; and ISO/TC 188 Small Craft.

**Availability** Distributed directly

**Keywords** boats; boating safety; transportation; recreation;

#### AMERICAN BOILER MANUFACTURERS ASSOCIATION

Russell N. Mosher, Executive Director

950 North Glebe Road, Suite 160  
Arlington, Virginia 22209  
(703) 522-7350 FAX: (703) 522-2665

Founded: 1888

**Type of Organization** Trade Association

**Scope** Manufacturer of boilers and allied equipment; compiles statistics and conducts training programs.

**Standardization Activities** Maintains a Technical Committee. Publishes a lexicon industry terminology, coal analysis, water quality, steam quality and accessory product definitions.

**Availability** Distributed directly

**Formerly** American Boiler Manufacturers Association and Affiliated Industries (1960)

**Keywords** boilers; heating; industrial equipment; steam generators;

**AMERICAN BOWLING CONGRESS/WOMEN'S INTERNATIONAL BOWLING CONGRESS**

Dan Speranza, Manager

Equipment Specification Department  
5301 South 76th Street  
Greendale, Wisconsin 53129  
(414) 421-6400

Founded: 1895

Standards Staff: 7

**Type of  
Organization**

Trade Association  
Standards Developer

**Certification**

All bowling lanes under the jurisdiction of the ABC/WIBC are certified annually by representative of local bowling associations chartered by ABC/WIBC. Lanes are measured and checked to assure that physical properties and dimensions correspond to ABC/WIBC specifications. When found to meet all specifications, and ABC/WIBC decal is issued for posting in the establishment.

**Scope**

A nonprofit, noncommercial, membership service organization for male bowlers (ABC) and female bowlers (WIBC). Sponsors competitions; provides standard rules and tests. Approves material and equipment.

**Standardization  
Activities**

Instrumental in developing specifications for playing equipment worldwide. Maintains an equipment testing and research department that works with new products brought to it for consideration, and also maintains a constant check on products already in use. Publishes equipment specifications annually in ABC constitution, Rules and Specifications. Standards developed for lanes, bowling balls, pins, pinsetting machines, automatic scorers, and foul detectors; Equipment specifications are printed annually in the ABC Constitution, Rules and Specifications book.

**Availability**

Distributed directly

**Formerly**

Absorbed the United States Seniors Bowling Association (1964)

**Keywords**

bowling; recreation;



## AMERICAN BRUSH MANUFACTURERS ASSOCIATION

Taylor Fernley, Managing Director

1900 Arch Street  
Philadelphia, Pennsylvania 19103  
(215) 564-3484

Founded: 1918

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Designation**

ANSI B165.1 and B165.2

**Scope**

The national trade association representing manufacturers of brushes, brooms, and mops, together with suppliers of parts, materials, machinery, and services. ABMA maintains several divisions organized by type of product including paint applicator, personal, household maintenance, broom and mop, and industrial.

**Standardization  
Activities**

All current standard activities are conducted by the Safety and Standards Committee of the Industrial Division which works closely with ANSI. The main thrust of two standards developed to date is concern with safe operation of power driven rotary wheel-type brushes. ANSI B165.1 (1979) defines safety requirements for the design, care and use of power driven brushing tools; and ANSI B165.2 (1982) covers safety requirements with wood, plastic, or composition hubs and cores.

**Availability**

Directly from ANSI

**Keywords**

brushes; industrial equipment; safety;

## AMERICAN BUREAU OF SHIPPING

Richard T. Soper, Chairman and President

45 Eisenhower Drive  
P.O. Box 910  
Paramus, New Jersey 07653-0910  
(201) 368-9100  
Telex: ITT 421966/428285  
FAX: (201) 368-0255

Founded: 1862

**Type of  
Organization**

Technical Society  
Standards Developer

**Standards  
Development**

Established and administers standards called "Rules" for the design, construction, and periodic survey of merchant ships and other marine structures; publishes 15 volumes of Rules and 23 guides; and publishes the Record, a registry of merchant vessels.

**Standards  
Designation**

ABS prefix

**Government  
Adoption**

Over 100 governments recognize ABS to act on their behalf by conducting surveys and issuing certificates relating to various international maritime conventions. ABS is authorized by USCG to act on their behalf in reviewing plans and inspecting U.S. flag vessels which are certified by the USCG. USCG also recognizes ABS to perform admeasurement of vessels and issue tonnage certificates on their behalf. Under the Merchant Marine Act of 1920, ABS is recognized as a U.S. government agency for classification of merchant vessels it may own.

**Certification**

ABS has separate volumes of Rules and Requirement for the Certification of Cargo Containers and for Cargo Gear. Also classification involves various certifications to provide assurance that the ABS Rules are met such as those of design plans, machinery components, welders, etc. ABS also provides certification services according to other recognized standards or client-specified standards.

**Scope**

An international ship classification society and nonprofit corporation. Objectives include: preparation of standards, known as "rules" and "guides", for the construction of hulls and machinery of ships and other marine structures, including material specifications and regulations for periodic surveys. Standards published annually and modified to keep pace with developments in shipbuilding and marine engineering; analysis of plans of vessels projected to be built, reconversions of existing vessels, to verify that they meet the standards set by the rules; verification of the building to approved plans of the new hull and its main machinery, boilers and vital auxiliaries, and the construction for hull and machinery as required by the rules; carrying out periodic and damage surveys as called for by the rules; annual publication of the Record of the American Bureau of Shipping which contains essential details of hull and machinery and survey status of bureau-classed vessels; issuance of certificates of character for bureau-classed vessels, i.e., classification certificates, seaworthy certificates, confirmation of class certificates, etc.

<b>Standardization Activities</b>	Promulgates and annually updates its Rules through committees composed of individuals internationally eminent in their marine field.
<b>Availability</b>	Standards distributed directly through all offices of ABS.
<b>Formerly</b>	American Shipmaster's Association (1862-1898)
<b>Keywords</b>	merchant ships; vessels; marine engineering; transportation; containers; safety;

#### AMERICAN BUS ASSOCIATION

George T. Snyder, Jr., Executive Vice President and CEO

1015 15th Street NW #250  
 Washington, DC 20005  
 (202) 842-1645

Founded: 1926

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	ANSI, Department of Transportation, Interstate Commerce Commission
<b>Scope</b>	A national trade association for the intercity motor bus industry with membership of more than 500 bus operating companies, plus state and regional bus associations, bus manufacturers, suppliers, and travel and tourism entities interested in bus transportation and tourism.
<b>Standardization Activities</b>	<p>Concerned with the development of standards and requirements in matters affecting motor carrier and motor vehicle safety and occupational safety and health. Included are operation, maintenance, and inspection of vehicles, safety-related parts and accessories such as brakes, tires, lights, windows, seats, etc.; control of noise and pollutant emissions; and accident reporting. Cooperates with the U.S. Department of Transportation, and participates in the work of voluntary groups, such as those sponsored by the American National Standards Institute. Works with federal and state legislative groups in connection with standardization of vehicle sizes and weights.</p> <p>Also works with the Interstate Commerce Commission and other interested government agencies, and industry groups in connection with standards and requirements relative to such matters as accounting, reporting of</p>



financial and operating data, certification of operating authorities, and vehicle registration.

Association committees and staff representatives are primarily responsible for its standardization activities. Included are committees on Safety, Maintenance, Ethics, and Inspection.

**Formerly** Motor Bus Division of American Automobile Association  
National Motor Bus Division of American Automobile Association  
National Association of Motor Bus Operators (1960)

**Keywords** bus transportation; transportation; vehicles;  
motorcoach tours; charters;

#### AMERICAN CHAIN ASSOCIATION

Raymond J. Lloyd, Executive Secretary

932 Hungerford Drive, Suite 36  
Rockville, Maryland 20850  
(301) 738-2448

Founded: 1981

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representation** 7 members active in ACA standardization serving on ASME, ANSI, and ISO standards committees

**Scope** Manufacturers of sprocket-driven chain and sprockets for power transmission and the conveyance of materials.

**Standardization Activities** Active in standardization of dimensions, of roller, silent, engineering steel and malleable iron chains, sprockets and wheels for the purpose of securing interchangeability, and also in standard recommendations for power capacity and speed for these chains. Does not publish standards, preferring to sponsor standards for adoption through the procedures of the American National Standards Institute (ANSI). Cooperates with the American Society of Mechanical Engineers, Society of Automotive Engineers, American Petroleum Institute, Conveyor Equipment Manufacturers Association, and the American Gear Manufacturers Association in standardization matters of mutual interest. ANSI standards covering chain include B29.1 through B29.25M. Participates in the work of Technical Committee 100 of the International Organization for Standardization.

**Formerly** Association of Roller and silent Chain Manufacturers  
and Malleable Chain Manufacturers Institute  
American Chain Sprocket Chain Manufacturers Association

**Keywords** chain; sprockets; power transmission; machinery;

**AMERICAN CHEMICAL SOCIETY**

COMMITTEE ON ANALYTICAL REAGENTS  
Clarence Lowery, Chairman

c/o Books Department  
American Chemical Society  
1155 Sixteenth Street NW  
Washington, DC 20036  
(202) 872-4600

Founded: 1876

**Type of  
Organization**

Scientific Society  
Standards Developer

**Standards  
Development**

63 existing standards for reagents; 15-30 under  
development or revision  
None processed through ANSI

**Standards  
Designation**

ACS prefix

**Scope**

Sets standards by which manufacturers can classify  
their reagent for sale as ACS Grade. Those reagents  
labelled as such are known to purchasers to be of a  
certain purity and to meet certain maximum and minimum  
requirements.

**Standardization  
Activities**

Develops and publishes standards for reagent chemicals  
that have utility in analytical chemistry work.  
Revises existing standards with new and improved  
methods. Considers new standards for additional useful  
reagents. Standards and revisions are available for  
review by nonmembers. Publishes specifications in a  
volume titled "Reagent Chemicals" at approximately  
five-year intervals.

**Availability**

Distributed directly

**Formerly**

Committee on the Purity of Chemical Reagents (1903-27)

**Keywords**

chemicals; reagents; analysis; testing; materials;

## AMERICAN COLLEGE OF SURGEONS

Paul A. Ebert, MD, Director

55 East Erie Street  
Chicago, Illinois 60611

Founded: 1913

**Type of  
Organization**

Professional Society  
Standards Developer

**Standards  
Development**

The national organization responsible for the standardization and approval of hospital cancer programs in the United States.

**Scope**

An association of 50,000 surgeons organized for the primary purpose of improving the quality of care for the surgical patient by elevating the standards of surgical education and practice.

**Standardization  
Activities**

Cooperates with other recognized national medical organizations in the accreditation of hospitals and in the approval of graduate training programs in general surgery and the surgical specialties. Active in the establishment of medical instrumentation standards, and its representative serve on committees of ANSI, ASTM, and AAMI.

**Availability**

Distributed directly

**Keywords**

medical care; surgery; medical training; cancer;  
medical treatments;

## AMERICAN CONCRETE INSTITUTE

Samuel J. Henry, Director of Engineering

22400 West Seven Mile Road  
Detroit, Michigan 48219  
(313) 532-2600

Telex: 810 2211454  
FAX: (313) 538-0655  
Standards Staff: 4

Founded: 1905

**Type of  
Organization**

Technical Society  
Standards Developer

**Standards  
Development**

Standards Developer since 1906; 30 active standards, including 3 metric plus 130 committee reports; 2300 members participate in standards activities; most standards processed through ANSI; draft standards available for review.



<b>Standards Designation</b>	ACI prefix
<b>Government Adoption</b>	The Department of Defense has adopted a number of ACI standards.
<b>Certification</b>	<p>ACI administers the following certification programs: Concrete Field Testing Technician, Grade I; Concrete Laboratory Testing Technician, Grades I and II; Concrete Construction Inspector-in-Training; Concrete Construction Inspector, Level II.</p> <p>ACI accredits equivalent certification programs administered by other organizations.</p>
<b>Scope</b>	Devotes its effort to the solution of technical problems related to the design, construction, and maintenance of concrete and reinforced concrete structures and to the dissemination of information in this field.
<b>Standardization Activities</b>	<p>One hundred nine technical committees study specialized problems through the evaluation of published information, research reports, and majority opinion based on field practices leading to the development of committee reports. Many committee reports evolve into standards after technical review and discussion by the membership and letter ballot of the members.</p> <p>Standards are confined to codes, specifications, and standards practices related to structures as a whole. Basic materials and "over-the-counter" components are deliberately excluded from the scope of its standardization procedures.</p>
<b>Availability</b>	Distributed directly and through Global and IHS
<b>Formerly</b>	National Association of Cement Users (1913)
<b>Keywords</b>	concrete; reinforced concrete; prestressed concrete; structural design; construction;

#### AMERICAN CONCRETE PAVEMENT ASSOCIATION

M.J. Knutson, P.E., President

3800 North Wilke Road  
Suite 490  
Arlington Heights, Illinois 60004  
(312) 394-5577

Founded. 1964

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Scope</b>	Represents 400 construction firms, material suppliers and equipment manufacturers on matters affecting the industry's relations with the public and public agencies. Seeks to improve the quality of concrete pavement and create new markets for members.
<b>Standardization Activities</b>	Prepares guide specifications on concrete pavement construction, fast track concrete paving, rehabilitation, resurfacing, and restoration. Cooperates with state, federal and local agencies in reviewing their specifications. Provides upon request recommendations regarding concrete pavement design and construction.
<b>Keywords</b>	concrete; pavement; construction; materials;

#### AMERICAN CONCRETE PIPE ASSOCIATION

Richard E. Barnes, President

8300 Boone Boulevard  
Vienna, Virginia 22182  
(703) 821-1990

Founded: 1907

Standards Staff: 2

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	ASTM, AASHTO, AREA
<b>Scope</b>	An international trade association representing the precast concrete pipe industry. Activities include research, technical services, promotion, advertising, education, safety, and the publication of technical and industry information. Members produce concrete pipe, box sections, and related products for storm sewers, sanitary sewers, and culverts; drain tile; irrigation systems; and low-head pressure systems.
<b>Standardization Activities</b>	Not a standards developing organization, but works within the voluntary standards system to coordinate concrete pipe industry standards activities, and acts as the industry voice.  Industry related products are covered by national consensus standards developed by ASTM, AASHTO, and AREA. Manufacturing standards cover precast concrete products, such as non-reinforced pipe for sewers, culverts, drain tile, and irrigation; reinforced

circular, arch and elliptical pipe, box sections, and manholes for sewers and culverts; reinforced circular pipe for low-head pressure systems; and perforated pipe. Other manufacturing standards cover joints, jointing materials, and resilient connectors for pipe to structure connections. Proof of design and quality assurance are covered by plant test methods standards. Acceptance of installed products is covered in standards practices for various field tests. Design standards for pipe and box sections cover determination of loads, stresses, and required structural strength.

**Keywords** sewer; culvert; irrigation; drain tile; construction;

**AMERICAN CONCRETE PRESSURE PIPE ASSOCIATION**

Richard E. Barnes, President

8320 Old Courthouse Road  
Vienna, Virginia 22180  
(703) 821-1990

Founded: 1949

Standards Staff: 2

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representation** Primarily ASTM and AWWA

**Scope** An international trade association representing the concrete pressure pipe industry. Activities include research, technical services promotion, public relations, advertising, education, and liaison with technical societies and government agencies. Its members produce precast concrete pressure pipe for transmission lines in irrigation, industrial and domestic water-supply systems, as well as distribution feeder mains, pressure siphons, sewer force mains, and sewer outfall lines.

**Standardization Activities** Not a standards developing organization, but works within the voluntary standards system to coordinate concrete pressure pipe industry standards activities, and acts as the industry voice.

Products of the industry are covered by national consensus standards developed by the American Society for Testing and Material (ASTM) and the American Water Works Association (AWWA). Manufacturing standards cover reinforced concrete pressure pipe, reinforced concrete cylinder pipe, pretensioned concrete cylinder pipe, and prestressed concrete cylinder pipe.



**Keywords** water-supply; sewage; construction;

**AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS**

William D. Kelley, Executive Secretary

6500 Glenway Avenue  
Building D-7  
Cincinnati, Ohio 45211  
(513) 661-7881

Founded: 1938

Standards Staff: 2

**Type of  
Organization**

Professional Society  
Standards Developer

**Standards  
Development**

Standards developer since 1940s

**Government  
Adoption**

Various federal agencies, including OSHA, Department  
of Labor

**Secretariats**

Threshold Limit Values for Chemical Substances  
Committee  
Threshold Limit Values for Physical Agents Committee

**Scope**

A national professional association of practicing  
industrial hygiene and occupational safety and health  
personnel in federal, state, and local agencies and  
educational institutions. Assembles guides, recommends  
practices, and technical background for the evaluation  
and control of the occupational environment.

**Standardization  
Activities**

Developed and annually revises the Threshold Limit  
Values which are recommended on airborne contaminants  
and physical agents in the workplace. Used by  
professionals with direct responsibilities for worker  
health protection. Publishes the Industrial  
Ventilation Manual of Recommended Practices.

**Availability**

Sold directly

**Keywords**

industrial hygiene; airborne contaminants; occupational  
safety; Threshold Limit Values; industrial ventilation;  
public health; government officials;

## AMERICAN CONGRESS ON SURVEYING AND MAPPING

John Lisack, Executive Director

5410 Grosvenor Lane  
Bethesda, Maryland 20814  
(301) 492-0200 FAX: (301) 492-8245

Founded: 1941

<b>Type of Organization</b>	Professional Society Works through other organizations to develop standards
<b>Certification</b>	Hydrographic Surveyor Certification Program since 1984
<b>Scope</b>	A national professional association representing 11,000 members in the fields of surveying and mapping; composed of three member organizations: National Society of Professional Surveyors (NSPS), American Association for Geodetic Surveying (AAGS), and American Cartographic Association (ACA).
<b>Standardization Activities</b>	Cooperates with ASCE, ANMC, International Cartographic Association (ICA), and International Federation of Surveyors (FIG) to promote standards in the fields of land and geodetic surveying and cartography.  Developed 1989 Digital Cartographic Data Standards. Works voluntarily through committees.
<b>Keywords</b>	surveying; mapping; cartography; data processing;

## AMERICAN COUNCIL OF INDEPENDENT LABORATORIES

Joseph F. O'Neil, Executive Secretary

1725 K Street NW  
Washington, DC 20006  
(202) 887-5872

Founded: 1937

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Standards</b>	Participates with others developing standard test procedures and laboratory methods.
<b>Secretariat</b>	ANSI Z34 Committee

<b>Scope</b>	A trade association of independent scientific and engineering laboratories whose membership includes many of the leading testing and inspection firms in the United States, Mexico, Central America, Japan, and Canada.
<b>Standardization Activities</b>	<p>Publishes a Manual of Practice entitled Recommended Requirements for Independent Laboratory Qualification, which encompasses a quality control system for personnel and equipment evaluation as well as calibration and standardization in the system.</p> <p>Promotes standards of ethics employed by independent laboratories in special fields of interest and activity including sampling, inspection, physical or nondestructive testing, and chemical analysis of raw, intermediate, and finished materials and products; research and development; the improvement of products or processes; the quality control of composition and performance; and professional consultation in various fields of scientific technology.</p> <p>Does not write standards for products or materials but participates in writing test procedures and methodology in other standards-writing organizations. Cooperates with the National Institute of Standards and Technology, Department of Defense and particularly the Army Corps of Engineers; General Services Administration; Department of Transportation; Department of Labor, Occupational Safety and Health Administration; Department of Health, Education and Welfare; Food and Drug Administration; and the Department of Agriculture.</p>
<b>Availability</b>	Distributed directly
<b>Formerly</b>	American Council of Commercial Laboratories
<b>Keywords</b>	laboratories; laboratory testing;

**AMERICAN CRYSTALLOGRAPHIC ASSOCIATION**

Marcia J. Vair, Administrative Secretary

P.O. Box 96  
 Ellicott Station  
 Buffalo, New York 14205-0096  
 (716) 856-9600 ext. 321 FAX: (716) 852-4846

Founded: 1949

Scientific Society  
 Standards Developer

**Type of Organization**



<b>Scope</b>	Promotes the study of the arrangement of atoms in matter, its causes, its nature, its consequences, and the tools and methods used in such studies.
<b>Standardization Activities</b>	<p>The Apparatus and Standards Committee has promulgated standards for camera tracks and bases and has adopted dimensional specifications for goniometer heads.</p> <p>An ACA appointed representative serves as a liaison to the National Institute of Standards and Technology for the issuance of Crystal Data. This publication provides a complete list of crystalline substances as identifies from unit cell dimensions.</p>
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Merger of the Crystallographic Society of America and the American Society for X-Ray and Electron Diffraction
<b>Keywords</b>	crystals; crystallography; instruments; testing;

#### AMERICAN DAIRY PRODUCTS INSTITUTE

	Dr. Warren S. Clark, Jr., Executive Director
	130 North Franklin Street Chicago, Illinois 60606 (312) 782-4888 FAX: (312) 782-5299
	Founded: 1923 Standards staff: 2
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1923 for evaporated milk products, testing, and sanitation, since 1925 for dry milk products, and since 1971 for whey products.
<b>Government Adoption</b>	The U.S. Department of Agriculture has adopted industry-recommended standards for grades of nonfat dry milk, instant nonfat dry milk, dry whole milk and dry buttermilk. Developed common and usual names for whey and whey products that have been accepted by the FDA and were published as a Regulation in the Federal Register of September 4, 1981 (Vol. 46, No. 172, pp. 44434-42).
<b>Certification</b>	No certification, qualification, or accreditation programs.

<b>Scope</b>	A national trade association for the processed dairy products industry. Scope of activity includes evaporated and dry milk products as well as whey and modified whey products, including lactose (milk sugar). Serves and promotes the interests of its members; enhances the acceptance and utilization of processed dairy products, maintains liaison and represents the industry in dealings with governmental agencies and legislative bodies; supports technical and marketing research; and assembles and disseminates statistics and other information.
<b>Standardization Activities</b>	Activities coordinated through Standards/Research Committee. Develops standards in the areas of product definitions/nomenclature; specifications and grade classifications; and sanitation for processed dairy products including evaporated milk, evaporated lowfat milk, evaporated skim milk, and evaporated filled milk; nonfat dry milk, instant nonfat dry milk, dry whole milk and dry buttermilk; whey, reduced lactose whey, reduced minerals whey, whey protein concentrate, and lactose. Accepted by the industry nationally and internationally. Cooperates with the Food and Drug Administration and the U.S. Department of Agriculture. Participates in the Codex Alimentarius program.
<b>Formerly</b>	ADPI is the result of a 1986 merger of the American Dry Milk Institute (1925) and the Whey Products Institute (1971). In 1987, the Evaporated Milk Association (1923) merged with ADPI.
<b>Keywords</b>	milk; milk products; whey; whey products; lactose; food;

#### **AMERICAN DEFENSE PREPAREDNESS ASSOCIATION**

	Lawrence F. Skibbie, President
	Two Colonial Place 2101 Wilson Boulevard Arlington, Virginia 22201-3061 (703) 522-1820
	Founded: 1919
<b>Type of Organization</b>	Technical Society Works through other organizations to develop standards
<b>Representation</b>	Primarily DoD and defense-related industry
<b>Scope</b>	Concerned citizens, military personnel, and engineers interested in industrial preparedness for the national defense of the United States.

<b>Standardization Activities</b>	Coordinates standards through programs, papers, symposia proceedings, panels. Works closely with government officials to develop standards, particularly in areas of engineering documentation and quality assurance.
<b>Formerly</b>	Army Ordnance Association (1947) American Ordnance Association (1973)
<b>Keywords</b>	national security; defense;

#### AMERICAN DENTAL ASSOCIATION

	Sharon Stanford, Standards Coordinator Council on Dental Materials, Instruments and Equipment  211 East Chicago Avenue Chicago, Illinois 60611 (312) 440-2500  Founded: 1859
<b>Type of Organization</b>	Professional Society Standards Developer
<b>Standards Development</b>	Specifications and certification program since 1928 49 active standards - all American National Standards Working projects underway for 85 specifications Draft standards available for comment
<b>Standards Designation</b>	ANSI/ADA prefix
<b>Government Adoption</b>	The Department of Defense has adopted 3 standards.
<b>Certification</b>	Certification program based upon physical standards; acceptance program based upon proof of biological and clinical safety and effectiveness.
<b>Secretariats</b>	U.S. TAG for ISO/TC106 Dentistry Working Group 2, Prosthodontic Materials of ISO/TC106 Accredited Standards Committee MD156 (ASC MD156)
<b>Scope (ASC MD156)</b>	Nomenclature, standards and specifications for dental materials, except those recognized as drugs. Nomenclature, standards and specifications for dental instruments, equipment and accessories used in dental practice, dental technology and oral hygiene which are



offered to the public or profession. Orthodontic, prosthetic, and restorative appliances designed or developed by the dentist for an individual patient are excluded.

<b>Standardization Activities</b>	Council on Dental Materials, Instruments and Equipment acts as administrative secretariat and sponsor Activities of ASC MD 156. The ADA also sponsors participation in ANSI activities of the International Organization for Standardization Technical Committee 106 on Dentistry. The ADA works both nationally and internationally in the formulation of standards for dental materials, instruments and equipment.
<b>Availability</b>	Distributed through ANSI
<b>Formerly</b>	National Dental Association (1897-1922) Absorbed: Southern Dental Association (1897)
<b>Keywords</b>	dentistry; dental materials, instruments and equipment; medical devices; health care;

#### **AMERICAN DESIGN DRAFTING ASSOCIATION**

Rachel Howard, Executive Director

5522 Norbeck Road  
Suite 391  
Rockville, Maryland 20853  
(301) 460-6875

Founded: 1948

<b>Type of Organization</b>	Professional Association Works through other organizations to develop standards
<b>Scope</b>	Conducts educational programs relating to management, administration, performance, and instruction of design/drafting; sponsors councils; conducts an annual convention/exposition. Over 2000 members engaged in the manual and/or automated design and drafting fields.
<b>Standardization Activities</b>	Maintains a Standards Committee which reviews ANSI proposed standards relating to the design/drafting fields. Submits comments to ANSI relating to proposed and existing standards. Informs the membership of the release, cost, and availability of new standards.
<b>Keywords</b>	design; drafting; interactive graphics; documentation; configuration management; change control; metric; data processing;

## AMERICAN ELECTROENCEPHALOGRAPHIC SOCIETY

Jacquelyn T. Coleman, Executive Director

One Regency Drive  
P.O. Box 30  
Bloomfield, Connecticut 06002  
(203) 243-3977

<b>Type of Organization</b>	Professional Society Standards Developer
<b>Scope</b>	Furtheres the knowledge of electroencephalography and related sciences, and promotes the exchange of scientific and professional information and opinions throughout the world.
<b>Standardization</b>	Works to establish uniform standards, techniques, and procedures; assists in setting up standards for training, examination, and qualification of clinical electroencephalographers and technicians; draws up minimum specifications for apparatus and equipment to maintain high clinical standards.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	medical instruments; electroencephalography; neurology; health care;

## AMERICAN ELECTROPLATERS AND SURFACE FINISHERS SOCIETY

J. H. Schumaker, Jr., Executive Director

12644 Research Parkway  
Orlando, Florida 32826  
(407) 281-6441

Founded: 1909

<b>Type of Organization</b>	Scientific Society Works through other organizations to develop standards
<b>Representation</b>	ASTM, ANSI, ISO
<b>Scope</b>	Promotes all aspects of electroplating and surface finishing.
<b>Standardization Activities</b>	Participates in standards development pertaining to electroplated coatings. Relies on work of American Society for Testing and Materials (ASTM), Committee B-8 on Electrodeposited Metallic Coatings, and endorses the standards prepared by Committee B-8 whose members are members of the American Electroplaters society.

Maintains formal representation on ASTM Committees A-5 on Corrosion of Iron and Steel, D-19 on Industrial Water, and B-7 on the Anodic Oxidation of Aluminum and Magnesium Alloys, as well as American National Standards Institute Committee Z9 on Safety Codes for Exhaust Systems.

**Formerly**

National Electro-Platers Association of the United States and Canada (1913)  
American Electroplaters Society

**Keywords**

electroplating; metallic coating; materials; surface finishing;

**AMERICAN FEED INDUSTRY ASSOCIATION**

Oakley M. Ray, President

1701 North Fort Myer Drive  
Arlington, Virginia 22209  
(703) 524-0810 FAX: (703) 524-1921

Founded: 1909

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Scope**

The national trade association of the animal feed manufacturing industry. Carries out substantial activities in the fields of transportation, animal nutrition, feed production, state and federal legislation and regulations, liquid feed, computers, public relations, state and federal feed control, marketing, purchasing, environmental controls, occupational safety and health, and market research.

**Standardization  
Activities**

Cooperates closely with the Association of American Feed Control Officials in developing a model state feed law and model state feed regulations. The objective is to bring as much uniformity as possible into the state feed laws and regulations. Every state but one has legislation which regulates the production and distribution of commercial feed. Also cooperates with the U.S. Food and Drug Administration in its enforcement of the Federal Food, Drug and Cosmetic Act, with OSHA, EPA, USDA and other government agencies.

**Keywords**

animal feed; feed; agriculture;



**AMERICAN FIBER MANUFACTURERS ASSOCIATION, INC.**

Paul T. O'Day, President

1150 17th Street NW  
Washington, DC 20036  
(202) 296-6508

FAX: (202) 296-3052

Founded: 1933

Standards Staff: 1

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

Fifteen member companies of MMFPA are represented by the Association's Technical Committee on committees and task groups of ASTM, ANSI, ANMC, and NFPA.

**Scope**

Membership represents 90 percent of the U.S. producers of manmade fibers and yarns. Functions on a national scale to present the industry's position before voluntary standards groups and those government agencies that develop or reference standards applicable to the overall textile industry.

**Standardization  
Activities**

Not a standards developing organization. The association represents the industry before standards groups such as ASTM, ANSI, and NFPA concerned with flammability standards for textile products including apparel and home furnishing items, such as carpets, draperies, and upholstered furniture. Cooperates with NIST, including the NIST Research Associate program, to develop meaningful and relevant flammability test procedures, such as the Carpet Flooring Radiant Panel Test Method. Represents the industry before those groups which develop or reference methods and standards for other fiber/textile properties, performance and metrication. Monitors and develops appropriate actions of those government agencies which develop or reference standards impacting the man-made fiber/textile industry.

**Keywords**

fiber; yarn; textiles; clothing; carpet; draperies; bedding; fire protection;

**AMERICAN FISHING TACKLE MANUFACTURERS ASSOCIATION**

Thomas P. Conley, President

1250 Grove Avenue  
Suite 300  
Barrington, Illinois 60010  
(312) 381-9490

Founded: 1933

Standards Staff: 1

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1933  
Draft standards available for review

**Scope**

Manufacturers and importers of fishing tackle and allied products organized to educate, guide, and assist its members in matters of common interest so that they maintain a high standard of conduct, efficiency, and usefulness to industry, government, and the public.

**Standardization  
Activities**

Administers fly line standards which are universally accepted and were prepared in cooperation with the American Casting Association and the International Casting Federation. Supplies each manufacturer with these standards for packaging with their fly lines. Developed standards for rod seats and reel feet for the purpose of improving compatibility between rods and reels.

**Availability**

Distributed directly

**Keywords**

fishing tackle; fly line; fishing reels; fishing rods; recreation;

**AMERICAN FOUNDRYMEN'S SOCIETY**

Thomas D. Jennings, Technical Director

505 State Drive  
Des Plaines, Illinois 60016  
(708) 824-0181

Founded: 1896

**Type of  
Organization**

Technical Society  
Standards Developer

**Standards  
Development**

Standards developer since 1936  
Three active standards developed under ANSI

**Certification**

No certification, qualification, or accreditation programs

**Secretariats**

ANSI Z241.x

**Scope**

An international technical society for the metal casting industry in North America. Develops and disseminates technical information regarding metallurgy, melting, coremaking, molding, sand

practice, and control of both the internal and external environment. Sponsors research concerning all facets of the metal casting process and environment. Through its Cast Metals Institute (CMI), prepares and presents short courses and seminars on various subjects of interest.

<b>Standardization Activities</b>	Participates on a number of standards writing committees of both ANSI and ASTM.
<b>Availability</b>	Available directly or through ANSI
<b>Formerly</b>	American Foundrymen's Association
<b>Keywords</b>	casting; foundry; metallurgy; materials;

#### AMERICAN FURNITURE MANUFACTURERS ASSOCIATION

Joseph Ziolkowski, Technical Director

Post Office Box HP-7  
223 Wrenn Street  
High Point, North Carolina 27261  
(919) 884-5000

Founded: 1984

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
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<b>Representation</b>	ASTM, ANSI, NFPA, UFAC
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<b>Scope</b>	A voluntary organization of furniture manufacturers dedicated to fostering the growth and development of the furniture industry and improving the effectiveness and efficiency of the furniture manufacturers.
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<b>Standardization Activities</b>	Develops voluntary guidelines for woven and knit upholstery fabrics through the Joint Industry Upholstered Fabric Committee.
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Works with the Upholstered Furniture Action Council (UFAC) to conduct research into more cigarette resistant furniture.

Established a Joint Industry Foam Standards Committee to develop guidelines and standards for the performance and use of urethane foam.

Developed voluntary guidelines for bunk beds through the Joint Industry Bunk Bed Committee which has now been turned over to Committee F-15 in ASTM.



**Formerly** National Association of Furniture Manufacturers;  
Southern Furniture Manufactures Association

**Keywords** upholstery; textiles; furniture; consumer products;

**AMERICAN GALVANIZERS ASSOCIATION**

Jerry Gambrell, Technical Director

1101 Connecticut Avenue, NW  
Suite 700  
Washington, DC. 20036  
(800) 468-7732  
(202) 857-1119

Founded: 1935

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representation** Active on more than 15 standards committees of ASTM and NACE

**Scope** Members supply over 60 percent of the galvanizing after fabrication done in North America. Aims to improve the efficiency of the industry, to encourage the application of the latest advances in technology, and to promote the wider use of hot dip galvanized products. Activities include advertising and promotion, technical services and development management advisory services, and marketing.

**Standardization Activities** Works within the voluntary standards system to coordinate industry standards activities and acts as the industry voice. Areas of involvement include coating standards for hot dip galvanized (zinc-coated) steel products such as: fasteners, castings, forgings, structural shapes, tanks, fencing, piping, grating, reinforcing bars, and structural plate. Represented on American Society for Testing and Materials subcommittees concerned with development and review of specifications for galvanizing and corrosion protection.

**Keywords** galvanizing; metallic coating; corrosion protection; materials;

## AMERICAN GAS ASSOCIATION

Forrest G. Hammaker, Manager, Standards Department  
AGA Laboratories  
Cleveland, Ohio 44131  
(216) 524-4990 Telex: 263574 AGA

1515 Wilson Boulevard  
Arlington, Virginia 22209  
(703) 841-8400 Telex: (710) 955-9848

Founded: 1918 Standards Staff: 10

### **Type of Organization**

Trade Association  
Standards Developer since 1910

### **Standards Development**

325 individuals active in standards development  
65 active standards  
Processed through ANSI  
Draft standards available for review

### **Standards Designation**

ANSI Z21.x  
ANSI Z83.x  
ANSI Z223.x  
ANSI B109.x

### **Certification**

The American Gas Association Laboratories, a Division of A.G.A., maintain testing facilities for gas appliances and accessories in Ohio and California. They function as a nationally recognized third party certification agency. Gas equipment designs submitted voluntarily by manufacturers are tested for compliance with applicable national standard, principally the Z21 and Z83 gas equipment standards. The production of certified equipment is monitored by regular follow up factory inspections. Appliances and accessories which are design certified by the Laboratories carry the certification seal or the listing symbol of the American Gas Association and are included in the A.G.A. Laboratories directory of Certified Appliances and accessories.

### **Secretariats**

Accredited Standards Committee Z21, Performance and Installation of Gas-Burning Appliances and Related Accessories and its 19 technical subcommittees.

Accredited Standards Committee Z83, Industrial Gas Equipment and Utilization and its 5 technical subcommittees

Accredited Standards Committee Z223, National Fuel Gas Code and its 3 advisory panels

Accredited Standards Committee B109, Gas Displacement Metering and its 2 subcommittees

**Scope**

A national trade association for 250 gas transmission and distribution companies which together account for 85% of gas delivered in the United States to 172 million consumers.

Coordinates gas industry activities concerning standardization, and information related to transmission, distribution, and utilization of gas. Serves as a clearinghouse for gas energy information for the public; as catalyst in technical and energy policy matters for the gas industry; and as spokesman on national issues for member companies. Promotes the gas industry to the best interests of public safety and a continuing supply of economical energy.

**Standardization Activities**

Works within the voluntary standards system to coordinate Association activities relative to national standards of interest to the gas industry. While not a standards developing organization, the Association actively participates in national standards development, including appointment of Association representation, in the areas of gas utilization equipment and its installation, and gas operating equipment and supplies.

Functions as the Administrative Secretariat to four Committees whose operating procedures are accredited by the American National Standards Institute (ANSI) as demonstrating the principles of due process and consensus. These four committees have 30 technical subgroups; supervise 47 standards covering residential gas appliances and accessories; 13 standards covering commercial and industrial gas equipment; 3 standards on gas displacement meters; and a standard covering the installation of gas piping and appliances, including their venting.

70 members and 24 staff active in standardization activities of 62 standards developing committees of other organizations, including ASTM, ASME, NFPA, and a number of American National Standards Committees.

**Availability**

Distributed directly and through ANSI, IHS, and Global

**Formerly**

Formed by merger of Gas Institute and National Commercial Gas Association

**Keywords**

fuel gas; natural gas; energy; building; consumer products; industrial equipment;



## AMERICAN GEAR MANUFACTURERS ASSOCIATION

Richard B. Norment, Executive Director

1500 King Street  
Suite 201  
Alexandria, Virginia 22314  
(703) 684-0211

Founded: 1916

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

31 committees, and 315 members participate in standards development  
60 active standards; 6 processed through ANSI  
Draft standards and revisions available for review by interested parties

**Standards  
Designation**

AGMA prefix

**Secretariats**

U.S. Technical Advisory Group to ISO/TC 60

**Scope**

Membership includes a majority of the principal manufacturers of gears, speed reducers and increasers in the United States and Canada. Develops standards to promote a common language for the industry. Scope has increased to developing a wide variety of public and economic programs which assist member companies to compete more effectively. Through the Administrative Division supports 6 Councils concerning itself with marketing programs, public and government affairs as well as statistical information services.

**Standardization  
Activities**

Standards cover such areas as: gear industry nomenclature; gear specification drawings; hobs and shaper-cutters; application classification of gear motors and other types of speed reducers; standards on tooth form geometry; strength and durability formulas; inspection methods and practices; gear blank materials; lubrication of open or enclosed gearing; design and rating of speed reducers; spur, helical, herringbone, worm, bevel, fine pitch, aerospace gears. Standards committees are listed in the Annual AGMA Directory.

Maintains liaison with the American National Standards Institute, American Society of Mechanical Engineers, Society of Automotive Engineers, Metal Cutting Tool Institute, Cooling Tower Institute, Machinery and Allied Products institute, National Machine Tool Builders Association, American Petroleum Institute, and other technical organizations. Participates in the

International Organization for Standardization (ISO), through the facilities of ANSI. Also cooperates with the federal government in standardization activities.

**Availability** sold directly and through IHS and Global

**Keywords** gears; gearing; speed reducers; gearmotors; lubrication; gear design; machinery;

**AMERICAN HARDBOARD ASSOCIATION**

C. Curtis Peterson, Executive Vice President

520 North Hicks Road  
Palatine, Illinois 60067  
(312) 934-8800

Founded: 1976

Standards Staff: 4

**Type of Organization** Trade Organization  
Standards Developer

**Standards Development** Standards developed through ANSI

**Standards Designation** ANSI/AHA prefix

**Government Adoption** Government references ANSI/AHA standards in government standards and guide specifications

**Certification** Quality Conformance Programs for Hardboard Siding based upon ANSI 135.6

**Scope** Represents manufacturers of hardboard products used for exterior siding, interior wall paneling, household and commercial furniture, and industrial and commercial products. Serves as the central clearing house on industry and technical information for architects, builders, contractors, distributors, dealers, government agencies, and the general public. Coordinates industry effort for statistical reports, standard/specification programs, research activities, building codes, environmental affairs, educational publications, manufacturing and safety activities, and governmental relations.

**Standardization Activities** Develops standards for hardboard, hardboard prefinished paneling, hardboard siding, and fiberboard products. Works with building code organization for effective utilization of these products. Administers a quality conformance program for hardboard siding.

**Availability** Sold directly and through ANSI

**Keywords** hardboard; fiberboard; building; materials;

**AMERICAN HEART ASSOCIATION**

Dudley Hafner, Executive Vice President

7320 Greenville Avenue  
Dallas, TX 75231  
(214) 373-6300 FAX: (214) 691-2704

**Type of Organization** Professional Society  
Works through other organizations to develop standards

**Scope** Supports research and professional and public education programs in an effort to reduce heart disease. Has 56 affiliates that cover all 50 states, 6 major metropolitan areas and Puerto Rico. Also has approximately 1,900 divisions and 2.7 million volunteers nationwide.

**Standardization Activities** Representatives of 14 Scientific Councils participate in the development of statements on a variety of topics relating to the prevention, detection and treatment of cardiovascular diseases.

**Keywords** endocarditis; heart disease; medical; medical devices;

**AMERICAN HELICOPTER SOCIETY**

John F. Zugschwert, Executive Director

217 North Washington Street  
Alexandria, Virginia 22314  
(703) 684-6777

Founded: 1943 Standards Staff: 1

**Type of Organization** Technical Society  
Works through other organizations to develop standards

**Representation** DoD, FAA, SAE, International Civil Aviation Organization (ICAO), and other organizations

**Scope** A technical organization dedicated to the advancement of all types of vertical flight. Membership includes all the major helicopter manufacturers worldwide. Provides the principal forum for the exchange of technical information pertaining to the realm of vertical flight. Representation includes military and



civil, governmental and educational institutions and activities. Maintains a specialized technical reference library.

**Standardization Activities** Maintains eleven technical committees with interests in acoustics, aerodynamics, aircraft design, avionics and systems, commercial operators, dynamics, handling qualities, manufacturing and product assurance, propulsion, structures and materials, test and evaluation, crew stations and human factors, flight simulation, military operations, and product support.

**Keywords** helicopter; rotorcraft; vertical flight; aerodynamics; propulsion; avionics; acoustics; defense; aerospace; transportation;

#### AMERICAN HOME ECONOMICS ASSOCIATION

Stephen P. Shearer, Administrator  
Business and Finance

1555 King Street  
Alexandria, Virginia 22314  
(703) 706-4600 FAX: (703) 706-4663

Founded: 1909

**Type of Organization** Professional Society  
Works through other organizations to develop standards

**Secretariats** ANSI Z61.1 - 1970 - Dimensions, Tolerances, and Terminology for Home Cooking and Baking Utensils

**Scope** An educational and scientific organization of 25,000 men and women. Improves the quality and standards of individual and family life through education, research, cooperative programs, and public information.

**Standardization Activities** Expresses an interest in standards through representation on the American National Metric Council and the American National Standards Institute's Consumer Council, Miscellaneous Technical Advisory Board, Textile Technical Advisory Board, and committees dealing with household refrigerators, electric ranges, textile test methods, and heat producing portable household appliances. Also represented on ISO/TC 133, Clothing Sizes; and ISO/TC 38, Textiles.

Works closely with the National Institute of Standards and Technology (NIST) and assisted in developing the Voluntary Product Standards PS 54-72, Body Measurements for the Sizing of Girls' Apparel, which has subsequently been withdrawn.

**Keywords** home economics; consumer products; clothing;

**AMERICAN HOSPITAL ASSOCIATION**

Douglas S. Erickson, Director Design and Construction  
Division of Facilities Management

840 North Lake Shore Drive  
Chicago, Illinois 60611  
(312) 280-6101

Founded: 1898

**Type of Organization** Trade/Professional Association  
Works through other organizations to develop standards

**Representation** National Institute of Science and Technology, agencies within the Department of Health and Human Services and the Department of Labor, ANSI, NFPA, ASTM, EPA, OSHA and others.

**Scope** Provides education, research, and representation services for 6,500 institutional and over 20,000 personal members.

**Standardization Activities** The Division of Facilities Management has the primary responsibility for codes and standards advocacy activities related to hospital planning, design, construction, engineering, equipment, supplies and facilities management. Maintains liaison with national organizations and government agencies concerned with the development of standards. Major goal is the development of standards which are based on knowledge, cost/benefit analysis and a statistical profile establishing need.

Liaison activities include recommendation, review, revision and testimony on standards. Actively participates in the development of standards for: fire and life safety; hospital engineering; equipment and facilities; infection control; hospital supplies; and environmental issues.

**Keywords** hospital; life safety; material management; hospital equipment; health care; facilities management;

## AMERICAN HOTEL AND MOTEL ASSOCIATION

Kenneth F. Hine, Executive Vice President and Chief Executive Officer

1201 New York Avenue, N.W.  
Washington, DC. 20005-3917  
(202) 289-3100

Founded: 1910

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ANSI, ASTM, UL
Scope	An international trade association representing the hotel and motel industry with primary efforts directed to the United States.
Standardization Activities	<p>Cooperates with other organizations in standards development. Adoption of any standards by an individual hotel/motel property is solely on a voluntary basis. Maintains liaison with the National Fire Protection Association, the National Institute of Standards and Technology, the National Institute of Building Sciences and the U.S. Fire Administration. Also works with the Council of Insurance Legislators and the Foundation for Fire Safety to seek solutions to the problems of toxicity and smoke generation. Works with the National Legislative Conference on Arson to support arson control.</p> <p>Involved in code activities of Building Officials and Code Administrators International, International Conference of Building Officials, National Conference of States on Building Codes and Standards, Southern Building Code Congress International, and Western Fire Chiefs Association.</p> <p>Active in ANSI's development of USA Standards Safety Code for Elevators, Dumbwaiters, and Escalators; and USA Recommended Practice for the Inspection of Elevators. Represented on various committees of ANSI, ASTM, and UL.</p>
Formerly	American Hotel Protective Association (1917) American Hotel Association (1962)
Keywords	hotels; motels; safety; fire protection;



## AMERICAN INDUSTRIAL HYGIENE ASSOCIATION

O. Gordon Banks, Executive Director

345 White Pond Drive  
P.O. Box 8390  
Akron, Ohio 44320

Founded: 1939

**Type of  
Organization**

Professional Society  
Standards Developer

**Secretariats**

ANSI Z9 committee

**Scope**

Objectives are to increase the knowledge of industrial hygiene through interchange and dissemination of information; promote the study and control of environmental factors affecting the health and well-being of workers in the workplace; correlate such activities as are conducted by individuals and agencies throughout industrial, educational, and governmental groups; and bring together persons interested in all aspects of the profession. Acts as clearinghouse for information on occupational health and safety. Brings together members of the profession through the formation of technical committees, local chapters and the conducting of continuing education course work and an annual meeting.

**Standardization  
Activities**

This association operates as a standards developer acting as secretariat for ANSI's Z9 committee and through comment by the association's 44 technical committees on public policy.

**Keywords**

industrial hygiene; environmental; occupational safety; public health;

## AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS

Harry J. Sheetz, Standards Administrator

370 L'Enfant Promenade, SW  
Washington, DC 20024-2518  
(202) 646-7532

Founded: 1930

**Type of  
Organization**

Professional Society  
Standards Developer

<b>Standards Development</b>	Standards developer since 1980 Processed through ANSI Draft standards available for review
<b>Standards Designations</b>	AIAA, S, G, R, SP prefixes
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Scope</b>	Advances the arts, sciences, and technology of aeronautics and astronautics, and nurtures and promotes the professionalism of those engaged in these pursuits. Serves the needs and professional interests of members, and improves public understanding of the profession and its contributions.
<b>Standardization Activities</b>	Directs activities toward achieving technical understanding in advance of new aerospace hardware and software designs and development. Works closely with the Department of Defense and National Aeronautics and Space Administration, encouraging direct participation of industry, academia and government representatives in meetings and activities of the standards committees.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	American Rocket Society (1930) Institute for Aeronautical Sciences (1932) Institute for Aerospace Science (1960)
<b>Keywords</b>	aerospace; aeronautics; astronautics; spacecraft; launch vehicles;

#### AMERICAN INSTITUTE OF ARCHITECTS

James P. Cramer, Hon. AIA, Executive Vice President/CEO

1735 New York Avenue, NW  
Washington, DC 20006  
(202) 626-7300

Founded: 1857

<b>Type of Organization</b>	Professional Society Works through other organizations to develop standards
<b>Scope</b>	Serves the needs and improves the capability of architects; conducts public relations and educational programs. Encourages the utilization of national consensus codes and standards.

<b>Standardization Activities</b>	<p>Maintains liaison with model building code organizations and standards writing groups within the industry. Several hundred AIA members work within the framework of the AIA Codes and Standards Committee.</p> <p>Issues a variety of contract forms and formulates recommendations concerning size and character of building product literature directed to the architect. Active in development of a uniform system for correlation of a specifications outline, a filing system for product data, and project cost accounting guide.</p>
<b>Availability</b>	Directly and through IHS
<b>Keywords</b>	architecture; building;

#### AMERICAN INSTITUTE OF CHEMICAL ENGINEERS

	<p>Richard E. Emmert, Executive Director</p> <p>345 East 47th Street New York, New York 10017 (212) 705-7338</p> <p>Founded: 1908</p>
<b>Type of Organization</b>	Professional Society Standards Developer
<b>Standards Development</b>	31 ANSI Standards; 17 active
<b>Standards Designation</b>	ANSI prefix
<b>Secretariats</b>	ANSI N-46 Sub-Committee: Nuclear Reactor Fuel Cycle
<b>Scope</b>	Advances Chemical Engineering in theory and in practice. Maintains a high professional standard among its members; serves society, particularly where chemical engineering can contribute to the public interest.
<b>Standardization Activities</b>	Recommends and supports ANSI or other standardization committees in areas of specified interest; provides competent and responsible representatives to such committees to ensure that any standards or codes developed are acceptable to the chemical engineering profession; develops an Institute position on major questions arising on standards proposals; and promotes the chemical engineer's participation in international standards work.



**Availability** Sold directly and through ANSI, IHS, and Global  
**Keywords** chemicals; materials;

**AMERICAN INSTITUTE OF PHYSICS**

Kenneth W. Ford, Executive Director

335 East 45th Street  
New York, New York 10017  
(212) 661-9404

Founded: 1931

**Type of Organization** Scientific Society  
Standards Developer

**Scope** A nonprofit membership corporation which promotes the advancement of physics and its application to human welfare.

**Standardization Activities** Standards, including Secretariats are provided by the Acoustical Society of America and the Optical Society of America. Both are Member Societies of AIP. AIP publishes and distributes standards for the Acoustical Society of America.

**Availability** Distributed directly

**Keywords** optics; acoustics;

**AMERICAN INSTITUTE OF STEEL CONSTRUCTION**

Neil W. Zundel, President

400 North Michigan Avenue  
Chicago, Illinois 60611  
(312) 670-2400

Founded: 1921

**Type of Organization** Trade Association  
Standards Developer

**Government Adoption** Specifications for Structural Steel for Buildings has been widely adopted by building code bodies and government agencies.

**Scope** A nonprofit trade association representing and serving the fabricated structural steel industry in the United States. Improves and advances the use of fabricated

structural steel through marketing and technical research aimed at developing the most efficient, safe, and economical design and fabrication of steel framed structures.

Provides a variety of services to the construction industry, design profession, and steel fabricating companies including specifications, technical publications, design aids, research and development programs, plus informational and educational services conducted nationally.

**Standardization  
Activities**

Published the AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings, and the Manual of Steel Construction. Also publishes the AISC Code of Standard Practice, and a number of specifications for materials, products, and assemblies which may be used in steel framed structures. The specifications and the manual are accepted and used universally by architects, engineers, building code bodies and government agencies.

**Availability**

Distributed directly and through IHS and Global

**Keywords**

steel; structural; construction; building;

**AMERICAN INSTITUTE OF TIMBER CONSTRUCTION**

R.F. Mullau, Executive Vice President

11818 Southeast Mill Plain  
Vancouver, Washington 98684  
(206) 254-9132

Founded: 1952

Standards Staff: 3

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1952  
200 members have opportunity to participate in standards activities  
15 active standards  
One processed through ANSI

**Standards  
Designation**

AITC prefix

**Government  
Adoption**

Adopted by local, regional, and state building codes and federal government agencies.

<b>Certification</b>	License qualified timber lamination plants to mark and certify products as being in conformance with ANSI A190.1.
<b>Secretariats</b>	ANSI A190.1
<b>Scope</b>	The American Institute of Timber Construction is the national technical trade association of the structural glued laminated timber (glulam) industry.
<b>Standardization Activities</b>	AITC's standardization activities are administered by the Institute's staff with the advice and assistance of the AITC Technical Advisory Committee. In addition to industry standards related to structural glued laminated timber and heavy timber construction, AITC has used the ANSI canvass procedure to develop ANSI/AITC A190.1, "Structural Glued Laminated Timber", which is the basis for the Institute's quality control certification program. ANSI and industry standards are adopted by building code agencies to govern the use of structural glued laminated timber. Standards specify design and manufacturing requirements.
<b>Availability</b>	Sold directly
<b>Keywords</b>	wood; glulam; structural; laminated timber; construction; building;

**AMERICAN INSURANCE SERVICES GROUP, INC.**

John L. Jablonsky, Vice President  
Engineering and Safety Service

85 John Street  
New York, New York 10038  
(212) 669-0473

Founded: 1984

Standards Staff: 12

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	ANSI, ASTM, NFPA, UL, etc.
<b>Scope</b>	This subsidiary of the American Insurance Association represents 260 companies providing property and liability insurance. Endeavors to reduce and control life and property losses as well as injuries, and damage to health and the environment thereby enhancing the general public's safety, health, and welfare.



Publishes information bulletins and reports on industrial safety rules, fire protection, construction, crime prevention, special hazards, workers compensation, motor vehicle safety, and environmental science.

**Standardization  
Activities**

Engineering and Safety Service administers standardization activities. Participates in nearly 100 standards-writing committees of the American National Standards Institute, National Fire Protection Association, American Society for Testing Materials, Underwriters Laboratories Incorporated, and others, that deal with the areas of fire protection, nuclear, chemical and environmental concerns, construction and construction safety, commercial motor vehicles, safety of personnel in the workplace, crime, and concerns regarding products, boilers, and machinery.

**Formerly**

Created by the merger of National Board of Fire Underwriters, Association of Casualty and Surety Companies, and American Insurance Association (1964); became a subsidiary in 1984.

**Keywords**

occupational safety; crime prevention; motor vehicle safety; fire protection; industrial hygiene; product safety; insurance; environmental science; safety; construction;

**AMERICAN IRON AND STEEL INSTITUTE**

Milton Deaner, President

1133 15th Street, NW  
Washington, DC. 20005  
(202) 452-7100

Founded: 1855

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Three design specifications

**Standards  
Designation**

As a result of early standardization efforts of the Automobile Manufacturers Association at the beginning of this century and present work by the Society of Automotive Engineers and AISI, numerical designations of steels which only refer to chemical composition ranges and limits are often identified as AISI/SAE "Standard Steels."

<b>Government Adoption</b>	The design specifications are referred to in building codes and state and federal specifications for construction.
<b>Secretariats</b>	U.S. Technical Advisory Group for ISO Technical Committee 167 on Steel and Aluminum Structures.
<b>Scope</b>	Activities include research, technology, and engineering, collection and dissemination of statistics, public distribution of information about the industry and its products, public affairs, and discussion of industrial relations including health, safety, and hygiene.
<b>Standardization Activities</b>	Developed and published design specifications for cold-formed steel structural members and for light-gage cold-formed stainless steel structural members.  Actively supports standardization activities through participation in the work of standards boards and committees of American National Standards Institute, American Society of Civil Engineers, American Society for Testing and Materials, National Fire Protection Association, and others.
<b>Availability</b>	Distributed directly and through IHS and Global
<b>Formerly</b>	American Iron and Steel Association (1912)
<b>Keywords</b>	steel; stainless steel; structural members; construction; materials;

#### **AMERICAN LADDER INSTITUTE**

James E. Elsener, Executive Director

c/o Smith, Bucklin and Associates

111 East Wacker Drive

Suite 600

Chicago, Illinois 60601

(312) 644-6610

FAX: (312) 565-4658

Founded: 1935

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards Developer since late 1930s 5 active standards All processed through ANSI
<b>Standards Designations</b>	ANSI A14.x

<b>Secretariats</b>	ANSI A14 Ladder Safety Committee
<b>Scope</b>	A national trade association representing U.S. companies engaged in the research, development, manufacture, and safety of ladders. Represents its membership in industry matters.
<b>Standardization Activities</b>	Promotes uniform design and manufacturer specifications and ladder safety. Works with government bodies, particularly OSHA and CPSC, in addressing design questions. Participates in activities related to production equipment used in making ladders. Current standards include: A14.1 Portable Wood Ladder; A14.2 Portable Metal Ladder; A14.3 Fixed Ladder; A14.5 Portable Reinforced Plastic; A14.7 Rolling Ladders; A14.8 Ladder Accessories.
<b>Availability</b>	Sold directly through ANSI
<b>Keywords</b>	ladders; wood; metal; fiberglass; reinforced plastic; rolling ladder stands; industrial equipment; consumer products; safety; portable; fixed; accessories; step;

#### AMERICAN LAMINATORS ASSOCIATION

Arthur S. Langlie, Executive Director

419 Norton Building  
Seattle, Washington 98104-1584  
(206) 622-0666

Founded: 1984

Standards Staff: 1

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	1 active standard
<b>Standards Designations</b>	ALA
<b>Certification</b>	Self-certification by each manufacturing member.
<b>Scope</b>	A national trade association of the thermoset panel industry with members throughout the United States and Canada.
<b>Standardization Activities</b>	American Laminators Association promotes thermoset decorative panels meeting the performance standard ALA 1988 under its registered trademark PERMALAM. Those panels are produced by ALA manufacturing members



throughout the United States and Canada, and the panels are for decorative uses primarily in cabinetry, fixtures, furniture, and other interior uses.

**Availability** Sold directly

**Keywords** laminated panels; building; materials;

**AMERICAN LEATHER CHEMISTS ASSOCIATION**

Velma Becker, Executive Director

c/o University of Cincinnati  
ML #14  
Cincinnati, Ohio 45221  
(513) 556-1197

**Type of Organization** Technical Society  
Standards Developer

**Standards Development** 150 standard test methods

**Scope** Chemists, leather technologists, and educators concerned with the tanning and leather industry. Objectives are to devise and perfect methods for the analysis and testing of leathers and materials used in leather manufacture; to promote advancement of chemistry and other sciences in their application to leather related problems.

**Standardization Activities** Maintains technical committees which develop methods of analyses and testing. Final methods published as the official methods of the association. Works with the American Society for Testing of Materials to coordinate physical test methods. Member of the International Union of Leather Chemists Society and participates in the development of methods for international use.

ALCA methods are incorporated in industry specifications. Members include representatives from government concerned with leather or leather products. Closely affiliated with the Leather Industries of America (formerly known as the Tanners Council of America).

**Keywords** leather; tanning; laboratory testing; materials;

## AMERICAN LIBRARY ASSOCIATION

Linda Crismond, Executive Director

50 East Huron Street  
Chicago, Illinois 60611  
(312) 944-6780

Founded: 1876

**Type of  
Organization**

Professional Association  
Standards Developer

**Scope**

Promotes libraries and librarianship to assure the delivery of user-oriented information service to all. Establishes standards of service, support, education, and welfare for libraries and library personnel; safeguards the professional status of librarians; promotes popular understanding and public acceptance of the value of the library service.

**Standardization  
Activities**

Develops standards and guidelines both quantitative and qualitative for library service and librarianship. Standards and guidelines adopted by ALA or its units include College Library Standards; Standards for Faculty Status for College and University Libraries; Standards for University Libraries; Statement of Quantitative Standards for Two-Year Learning Resources Programs; Library Standards for Adult Correctional Institutions; Library Standards for Jails and Detention Facilities; Library Standards for Juvenile Correctional Institutions; Standards for Accreditation; Standards for Libraries at Institutions for the Mentally Retarded; Standards of Service for the Library of Congress National Library Service Network of Libraries Serving the Blind and Physically Handicapped.

Also works through committees and assists in the development of uniform codes for analyzing and cataloging information.

**Availability**

Sold directly

**Keywords**

library; librarianship; physically handicapped; education;

## AMERICAN LIGHTING ASSOCIATION

James S. Nicol, Managing Director

435 North Michigan Avenue  
Suite 1717

Chicago, Illinois 60611-4067  
(312) 644-0828

Telex: 701633

FAX: (312) 644-8577

Founded: 1943

Standards Staff: 1

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representation** UL

**Scope** Represents manufacturers of lighting fixtures, portable lamps, lamps (bulbs) and lighting accessories. Also represents lighting showrooms and manufacturers representatives. Monitors and reacts to issues that affect UL listing of products and to regulatory changes that affect the industry. Conducts educational programs.

**Standardization Activities** Actively involved with Underwriters Laboratories with matters affecting the UL standards for all lighting fixtures and portable lamps.

**Formerly** American Home Lighting Institute

**Keywords** lighting; fixtures; track lighting; electrical; building; consumer products; recessed;

## AMERICAN LUMBER STANDARDS COMMITTEE

Thomas D. Searles, Executive Vice President

P.O. Box 210

Germantown, Maryland 20874

(301) 972-1700

FAX: (301) 540-8004

Founded: 1922

**Type of Organization** NIST Product Standards Committee  
Standards Developer

**Standards Development** Sets the standards under which virtually all of the lumber in the United States and Canada is produced.

**Government Adoption** Widely used by federal and local government agencies



<b>Scope</b>	The licensing agent for all nine grading agencies and six rules writing agencies in the United States. Consists of 23 representatives and 23 alternate groups of lumber manufacturers, lumber inspection agencies, engineers, architects, contractors, home builders, wholesalers, retailers, millwork manufacturers, and other consumers, as well as five ex officio nonvoting government agency representatives appointed by the Secretary of Commerce.
<b>Standardization Activities</b>	Acts as the standing committee for the purpose of considering revisions or amendments to the National Institute of Standards and Technology Voluntary Product Standard 20-70. This standard provides classification of American standard lumber, grading standards and grademarking, size standards, nomenclature, definitions, and abbreviations. Elects a Board of Review and adopts policies used by the Board in carrying out its functions.  Principal functions of the Board are to review and approve rules submitted by agencies to assure they conform to the American Lumber Standards requirements; review and approve grading agencies; and to continuously review adequacy, competency and reliability of approved agencies.
<b>Formerly</b>	Central Committee on Lumber Standards (1941)
<b>Keywords</b>	lumber; construction; building; wood; grading; inspection;

#### AMERICAN MEDICAL ASSOCIATION

	James H. Sammons, M.D., Executive Vice President  515 North State Street Chicago, Illinois 60610 (312) 464-5000  Founded: 1846
<b>Type of Organization</b>	Professional Society Standards Developer
<b>Standards Development</b>	Develops advisory standards None processed through ANSI
<b>Scope</b>	A national organization of physicians whose objective are to foster the advancement of medical science, medical practice, and the public health.

<b>Standardization</b>	<p>Develops advisory standards dealing with drug evaluation, diagnostic and therapeutic technology assessment, guides to the evaluation of physical impairment, physical fitness standards for industry, undergraduate medical education, hospital residency training programs, and continuing medical education. Maintains close liaison with the federal government in matters of drug nomenclature (through the United States Adopted Names Council), medical and device evaluation at the post-marketing level of surveillance, and other issues of a scientific nature that arise in the practice of medicine.</p> <p>Issues reports relating to guidelines for the determination of permanent impairment, the frequency of medical examinations, and many other issues relative to the medical diagnosis and management of patient problems. Reports are adopted by the AMA House of Delegates if they are to be made AMA policy.</p>
<b>Availability</b>	Distributed directly
<b>Keywords</b>	medicine; medical; drugs; health care;

#### AMERICAN NATIONAL METRIC COUNCIL

	<p>James M. Meredith, President</p> <p>1620 I Street, NW Suite 220 Washington, DC 20006 (202) 857-0474 FAX: (202) 659-5427</p> <p>Founded: 1973 Standards Staff: 1</p>
<b>Type of Organization</b>	<p>Trade Association</p> <p>Works through other organizations to develop standards</p>
<b>Scope</b>	<p>A private, nonprofit organization dedicated to planning, coordinating, and facilitating voluntary metric transition activities in various sectors of the U.S. economy. A focal point for private sector metric transition planning activity and information.</p> <p>Distributes information about metric activities in the United States, Canada, and around the world. Publishes a newsletter and special issue papers. Conducts conferences, seminars, and educational workshops.</p>
<b>Standardization Activities</b>	<p>Assists standards making bodies by identifying needs for standards in SI units, evaluating priorities, and making recommendations for standards development. Maintains several committees that affect</p>

standardization activities. The Standards Task Group has identified the scope and criticality of standards issues and prepared a model chapter and checklist summarizing specific tasks that industry sector committees can incorporate in their metric plans.

**Keywords**

metric; measurement; international trade; manufacturing; business; general; defense;

**AMERICAN NATIONAL STANDARDS INSTITUTE**

Manuel Peralta, President

1430 Broadway  
New York, New York 10018  
(212) 354-3300

FAX: (212) 398-0023  
Telex: 42 42 96 ANSI UI

Founded: 1918

Standards Staff: 110

**Type of  
Organization**

Standards coordinating and approval organization. The Institute does not develop standards. They are developed by qualified technical and professional societies, trade associations, and other groups which voluntarily submit them to ANSI for approval. U.S. member of nongovernmental international standards bodies.

**Standards  
Designations**

9,500 standards approved by ANSI are designated American National Standards.

**Government  
Adoption**

American National Standards are widely adopted and referenced by government at the federal, state, and local levels.

**Certification**

ANSI accredits certification programs sponsored and operated by competent organizations in the United States and represents U.S. interests in international non-treaty certification activities. It does not certify products and services.

**Scope**

250 professional and technical societies and trade associations that develop standards in the United states are members of ANSI; 1,100 companies are members.

ANSI performs the following major functions:

- coordinates the development of voluntary national standards in the United States;
- approves standards as American National Standards; manages and coordinates U.S. participation in nongovernmental international standards developing



organizations, such as the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC);

- serves as the U.S. source and information center for all American National Standards and those issued by ISO, IEC, and the national standards organizations of 69 other countries;
- maintains interface with government at all levels on standards-related matters.

## **Standardization Activities**

### **National Coordination -**

Coordinates and harmonizes private sector standards activity in the United States. It assists participants in the voluntary standards system reach agreement on the needs for standards, encourages qualified organizations to develop them, and follows up on progress. It provides standards developers with procedures and services to use their resources effectively, avoid duplication of effort, and resolve conflicts.

### **Approval of American National Standards -**

Standards are approved by ANSI as American National Standards when it finds that its criteria for due process have been met and that a consensus for approval exists among those directly and materially affected.

**International Management and Coordination -**  
ANSI is the U.S. member of the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC). The Institute manages, coordinates, and provides financial and administrative support for U.S. participation in these two major nongovernmental standards developing bodies. With the support of its members and other cooperating bodies, the Institute participates in some 2,000 ISO technical committees and subgroups. It administers the secretariats of 13 ISO technical committees, 65 subcommittees, and 179 working groups.

It helps govern ISO through membership on its Council and Executive and Planning Committees. The U.S. National Committee of IEC, which is part of ANSI, participates in 90% of the International Electrotechnical Commission's technical program and is represented on IEC's policy making council and committees. It holds the secretariat of 11 IEC technical committees and 21 subcommittees.

### **Clearinghouse and Information Center -**

Serving as the clearinghouse and information center for

national, international, regional, and foreign national standards is another of ANSI's functions. The following are available from ANSI:

All 9,500 approved American National Standards  
ISO and IEC International Standards  
ISO Draft International Standards  
IEC Six Months' Rule documents  
CEN Proposals - Draft European Standards developed and issued for preliminary vote by the European Committee for Standardization (CEN)  
Draft specifications of the Electronic Components Committee of CENELEC - the European Committee for Electrotechnical Standardization  
Standards of 86 other national standards organizations that belong to ISO  
Latest catalogs issued by ISO, IEC, and 69 members of ISO

Interface with government -  
Furnishes advice, counsel, and testimony to congressional committees and state and local legislative bodies. It encourages government agencies to participate in voluntary standards activities and to use voluntary standards, where appropriate. Close cooperative ties exist between ANSI and individual federal agencies. For example: the Department of Defense, General Services Administration, and National Institute of Standards and Technology are ANSI members. An ANSI-Consumer Products Safety Commission Coordinating Committee is working to enhance overall cooperation between CPSC and private sector organizations that develop standards for consumer products and services. An ANSI-OSHA (Occupational Safety and Health Administration) Coordinating Committee performs a similar function in the area of standards for industrial safety.

**Formerly**

American Engineering Standards Committee (1918);  
American Standards Association (1928);  
United States of America Standards Institute (1968);

**Keywords**

national standards; international standards; voluntary standards; standards coordination; general;

**AMERICAN NUCLEAR SOCIETY**

Marilyn D. Weber, Manager, Standards Department

555 North Kensington Avenue  
La Grange Park, Illinois  
(708) 352-6611

Telex: 497 2673  
FAX: (708) 352-6464

Founded: 1954

Standards Staff: 3

**Type of  
Organization**

Scientific Society  
Standards Developer

**Standards  
Development**

135 active projects  
104 approved standards  
All processed through ANSI  
Draft standards available for review

**Standards  
Designation**

ANS prefix

**Government  
Adoption**

A number of NRC Regulatory Guides reference ANS standards; several standards are referenced in the Code of Federal Regulations

**Secretariats**

N16, Nuclear Criticality Safety  
N17, Research Reactors, Reactor Physics, and Radiation Shielding  
N48, Radioactive Waste Management  
American Nuclear Society Nuclear Power Plant Standards Committee (NUPPSCO)

**Scope**

A nonprofit, international, scientific, engineering and education organization. Aims to advance science and engineering related to the atomic nucleus and allied sciences and arts and to integrate the disciplines constituting nuclear science and technology.

**Standardization  
Activities**

Maintains a Standards Committee which ascertains the need for standards in the nuclear field, develops such standards, and cooperates with other organizations to develop standards. Maintains 20 subcommittees in the areas of reactor operations and design, performance criteria, radiation protection, and fuel and waste management.

**Availability**

Sold directly and through ANSI and Global

**Keywords**

reactor; radioactive waste; nuclear; nuclear power plant; radiation shielding; energy; safety;

**AMERICAN OCCUPATIONAL MEDICAL ASSOCIATION**

Donald L. Hoops, Ph.D., Executive Director

55 West Seegers Road  
Arlington Heights, Illinois 60070  
(708) 228-6850

Founded: 1916



<b>Type of Organization</b>	Professional Society Standards Developer
<b>Certification</b>	Provides recognition of achievement and studies in Occupational Medical Practice via the Association's Basic Curriculum Program in Occupational Medicine.
<b>Scope</b>	Represents the profession in matters pertaining to Occupational Medical Practice.
<b>Standardization</b>	Actively participates in various standards developing committees. Sets forth acceptable medical practices in the form of recommended guidelines. Comments on and suggests modifications to all related federal legislation.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	occupational medicine; public health; health care;

#### AMERICAN OIL CHEMISTS SOCIETY

J. Lyon, Executive Director

P.O. Box 3489

Champaign, Illinois 61826-3489

(217) 359-2344

Telex: 4938651 AOCs UI

FAX: (217) 351-8091

Founded: 1909

Standards Staff: 2

<b>Type of Organization</b>	Scientific Society Standards Developer
<b>Standards Development</b>	Standards Developer since 1909 4000 members participate in standards activities 365 active standards None processed through ANSI
<b>Certification</b>	The Society certifies Approved Chemists and Certified Laboratories through its Examination Board.
<b>Scope</b>	A scientific organization concerned with basic research on animal, marine, and vegetable oils and fats, including their extraction, refining, use in consumer and industrial products, safety, packaging, and quality control.
<b>Standardization Activities</b>	Publishes the Official Methods and Recommended Practices of the American Oil Chemists Society, a result of the work of various technical committees.

Offers accurately tested and graded natural bleaching earth, activated bleaching earth, refining cups and other materials, all designed for use with specific methodology.

Sponsors joint committees with the American Society for Testing and Materials, Association of Official Agricultural Chemists, and American Association of Cereal Chemists. Representation maintained on committees of the American Association for the Advancement of Science, National Fire Protection Association, National Research Council, U.S. Technical Advisory Group for ISO/TC 34, and the Codex Alimentarius Committee on Fats and Oils.

<b>Availability</b>	Sold directly
<b>Formerly</b>	Society of Cotton Products Analysts (1922)
<b>Keywords</b>	fats; vegetable oil; fish oil; analysis; oil extraction; oil refining; food; laboratory testing;

#### AMERICAN OPTOMETRIC ASSOCIATION

Earle L. Hunter, O.D., Executive Director

243 North Lindbergh Boulevard  
St. Louis, Missouri 63141  
(314) 991-4100

Founded: 1898

Standards Staff: 2

<b>Type of Organization</b>	Professional Society Works through other organizations to develop standards
<b>Representation</b>	ANSI, ASTM, ISO, IEC
<b>Certification</b>	Council On Optometric Education accredits and certifies schools and colleges of optometry in United States and Canada. Council On Clinical Optometric Care accredits optometric clinical facilities.
<b>Scope</b>	A nonprofit corporation representing doctors of optometry and students of optometry. A federation of associations representing each of the fifty state, the District of Columbia, and doctors of optometry in the armed forces. Objectives are to improve the vision care and health of the public and to promote the art and science of the profession of optometry.
<b>Standardization Activities</b>	The Commission On Ophthalmic Standards serves as the coordinating body for AOA's activities with private and governmental groups in the development of standards and

policies related to the quality of ophthalmic materials, instrumentation and procedures.

The Council On Optometric Education is the accrediting body for schools and colleges of optometry, as recognized by the U. S. Department of Education and the Council on Postsecondary Accreditation.

The Council On Clinical Optometric Care evaluates and accredits the quality of vision care for optometric clinical facilities.

**Formerly**

American Association of Opticians (1919)

**Keywords**

education; optometry; ophthalmic products; vision; public health;

**AMERICAN PAPER INSTITUTE**

Ronald J. Slinn, Vice President  
Standards and Metrics Department

260 Madison Avenue  
New York, New York 10016  
(212) 340-0680 FAX: (212) 689-2628

Founded: 1966

**Type of**

**Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

ISO, TAPPI, ASTM, GSA

**Secretariats**

U.S. TAG to ISO/TC 6, Paper, Board and Pulps

**Scope**

The national trade association of 170 companies that manufacture pulp, paper, and paperboard in the United States.

**Standardization  
Activities**

Standards for testing certain physical characteristics such as bursting strength, tear, brightness, opacity, etc., have been developed for many grades of paper. These domestic specifications are officially published by the Technical Association of the Pulp and Paper Industry. Standard gauge lists for combination paperboard were revised effective January 1969 and adopted by members of the Combination Paperboard Division of the API Paperboard Group.

The Dictionary of Paper, fourth edition 1980, contains nearly 500 pages of concise descriptions of pulp and other raw papermaking materials, papers, paperboards, paper properties and papermaking terms. The contents



afford considerable guidance in the appraisal of paper grades, specifications, or nomenclature standards.

An active member of the American National Standards committee, participates in international standardization activities through U.S. Technical Advisory Group to ISO/TC 6. Works closely with various federal and state agencies in the development of product specifications, particularly the General Services Administration and the Joint Committee on Printing of Congress. Participates with the American Society for Testing and Materials in the development of its specifications and standardization activities affecting pulp, paper or paperboard.

**Formerly** Several independent trade associations prior to 1965  
**Keywords** pulp; paper; paperboard;

#### AMERICAN PAPER MACHINERY ASSOCIATION

Frank McManus, Executive Director

5313 38th Street, NW  
Washington, DC 20015  
(202) 362-6034

FAX: (202) 244-7752

Founded: 1933

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Scope** Membership consists of the manufacturers of pulp and paper machinery.

**Standardization Activities** Participates in the ANSI standards process and programs of the American Paper Institute, TAPPI and others. Currently considering the establishment of a project to develop a voluntary standard.

**Formerly** Pulp and Paper Machinery Manufacturers Association

**Keywords** paper; machinery;

#### AMERICAN PETROLEUM INSTITUTE

C. Thomas Sawyer, Vice President, Industry Affairs

1220 L Street, NW  
Washington, DC 20005  
(202) 682-8000

Founded: 1919

Standards Staff: 30

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1919  
880 active standards  
100 industry committees and 1,500 people active in  
standards activities  
15 percent of API standards processed through ANSI  
5 percent published jointly with ASTM

**Standards  
Designations**

API standards are called standards, recommended  
practices, publications, bulletins, guidelines, and  
specifications.

**Representation**

Members serve on committees of other organizations  
including the American Society for Testing and  
Materials, Society of Automotive Engineers, the  
American Society of Mechanical Engineers, the Institute  
of Electrical and Electronic Engineers, Instrument  
Society of America, National Fire Protection  
Association, Scientific Apparatus Manufacturers  
Association, American National Standards Institute,  
American Gear Manufacturers Association, National  
Association of Corrosion Engineers, Society for Non-  
Destructive Testing, American Welding Society,  
Association of Drilling Constructors, American Gas  
Association, American Iron and Steel Institute, and the  
Association of Well-Head Equipment Manufacturers.

**Government  
Adoption**

Department of Transportation, Department of Defense,  
Occupational Safety and Health Administration, U.S.  
Customs Service, the Environmental Protection Agency,  
U.S. Geological Survey.

**Certification**

API issues a monogram to those production field  
equipment manufacturers who produce equipment according  
to API standards. API also licenses companies to use  
API specifications on their motor oils if they meet API  
specifications.

**Secretariats**

ISO/TC 67/SC 9, Wellhead Equipment and Pipeline Valves  
ASTM D2, Petroleum Products and Lubricants  
API/ASTM, Joint Committee on Static Petroleum  
Measurement

**Scope**

A national association encompassing all branches of the  
petroleum industry and composed of over 200 companies.

**Standardization**

Activities directed toward fulfilling user-defined  
requirements of the industry and its customers. The  
Industry Affairs group produces standards in the area  
of transportation, marketing, production, refining,

measurement, marketing, production, refining, measurement, safety and fire protection. Maintains liaison with other standardization bodies. Standards are primarily performance oriented with some design and process specifications where appropriate. Standards used worldwide and offered for adoption to the International Organization of Legal Metrology and the International Organization for Standardization.

**Availability**

Distributed directly and through IHS and Global

**Keywords**

petroleum; petroleum equipment; petroleum measurement; petroleum transportation; materials;

**AMERICAN PHARMACEUTICAL ASSOCIATION**

John A. Gans, Pharm. D., Executive Vice President

2215 Constitution Avenue, NW  
Washington, DC 20037  
(202) 628-4410

Founded: 1852

**Type of  
Organization**

Professional Society  
Standards Developer

**Scope**

A national professional society with 37,000 individual pharmacists and pharmaceutical scientists in the United States. Concerns itself with matters affecting the professional, technical, legal, and scientific aspects of the practice of pharmacy.

**Standardization  
Activities**

Primary standardization programs pertain to standards of practice for the profession of pharmacy. Responsible for the pharmacy profession's code of ethics. Through its Board of Pharmaceutical Specialties, establishes criteria for specialization and certification of specialists within pharmacy. Participates jointly with other organizations in sponsoring and conducting a program known as the United States Adopted Names Council (USAN), for the establishment of standardized nonproprietary nomenclature for drugs. Through USAN, APA is involved with the World Health Organization in developing international nomenclature for the naming of drugs. Also participates in programs of the Pan-American Health Organization and the Federation Internationale Pharmaceutique. Maintains contact with the Food and Drug Administration; the Treasury Department, Alcohol and Tobacco Division; the Social Security Administration, Medicare Division; and the Justice Department, Drug Enforcement Administration.



**Availability** Distributed directly

**Keywords** pharmaceutical; drugs; drug purity; nomenclature;  
health care; pharmacist; pharmaco therapy; pharmacy  
ethics; practice standards;

**AMERICAN PIPE FITTINGS ASSOCIATION**

Paul H. Engle, Jr., Executive Director

6203 Old Keene Mill Court  
Springfield, Virginia 22152  
(703) 644-0001

Founded: 1938

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representation** Represented on the standards committees of MSSVFI and ANSI B16

**Scope** An association of American pipe fittings manufacturers and producers of pipe hangers and suppliers.

**Standardization Activities** Although not a standards developing organization, encourages, contributes to, and cooperates in the development of standards for products within the scope of the association which will benefit the industry, its customers and the public.

**Formerly** Pipe Fittings Manufacturers Association (1964)

**Keywords** pipe hangers; pipe supports; building; construction;

**AMERICAN PLYWOOD ASSOCIATION**

William A. Baker, Manager, Market Support Services

P.O. Box 11700  
Tacoma, Washington, 98411  
(206) 565-6600 Telex: 32-7430  
FAX: (206) 565-7265

Founded: 1933

**Type of Organization** Trade Association  
Standards Developer

<b>Standards Development</b>	<p>Eleven active standards</p> <p>None processed through ANSI</p> <p>Draft standards available for review by members and others at discretion of APA</p>
<b>Government Adoption</b>	<p>PS 1 adopted by all government agencies. Other APA standards recognized by most federal, state and local jurisdictions.</p>
<b>Secretariats</b>	<p>Secretariat for NIST Industry Standards Committee organized to maintain Voluntary Product Standard PS 1.</p>
<b>Scope</b>	<p>A nonprofit industry trade association engaged in advertising, promotion, quality testing and inspection, product and applied research, and codes and standards activities. Membership consists of mills involved in the manufacture of plywood and other structural-use panels, and of structural composite lumber.</p>
<b>Standardization Activities</b>	<p>APA standardization activities are administered by the Technical Services Division and encompass engineering design, manufacture, and application of plywood and other structural -use panels produced by its members. Standards are submitted for reference and adoption in building codes and other construction standards. Leader in the development of performance criteria for qualification of structural panels in accordance with their end use, administered through performance standards and policies.</p> <p>Cooperates with the Department of Commerce, National Institute of Standards and Technology; the Department of Housing and Urban Development; Federal Housing Administration, Department of Transportation; Department of Defense; National Institute of Building Sciences; and the General Services Administration. Also participates on committees of the American Society for Testing and Materials.</p> <p>Active member of ISO/TC 139 - Plywood. Participates in the International Union of Testing and Research Laboratories for Materials and Structures, and in the International Council for Building Research Studies and Documentation, Working Commission CIB/W18 - Timber Structures.</p>
<b>Availability</b>	<p>Sold directly</p>
<b>Formerly</b>	<p>Douglas Fir Plywood Association; American Plywood Association (1964)</p>
<b>Keywords</b>	<p>plywood; structural panels; sheathing; siding; building; construction; wood products; structural composite lumber;</p>

## AMERICAN PODIATRIC MEDICAL ASSOCIATION

Dr. Jay Levrio, Director

Council on Podiatric Medical Education  
9312 Old Georgetown Road  
Bethesda, Maryland 20814-1621  
(301) 572-9200

Founded: 1912

**Type of  
Organization**

Professional Society  
Standards Developer

**Certification**

The American Podiatric Medical Association's Council on Podiatric Medical Education is the accrediting body for podiatric medical education recognized as such by the U.S. Department of Education and the Council on Postsecondary Accreditation.

**Scope**

A voluntary, nonprofit corporation which promotes the art and science of podiatric medicine and the betterment of public health.

**Standardization  
Activities**

Maintains standards and accrediting procedures for educational programs by publishing documents for each activity of accrediting or approval. Accredits colleges of podiatric medicine and podiatric assistants training programs. Approves podiatric medical residency programs and continuing medical educational programs. Recognizes specialty boards in specific fields of podiatric medicine.

The Council's standards are subject to the approval of the House of Delegates of the American Podiatric Medical Association.

**Availability**

Distributed directly

**Formerly**

National Association of Chiropodists (1958), American Podiatry Association (1984).

**Keywords**

Podiatric medicine; health care; education; accreditation; certifying boards;



## AMERICAN PSYCHIATRIC ASSOCIATION

Melvin Sabshin, Medical Director

1400 K Street, NW  
Washington, DC 20005  
(202) 682-6000

Founded 1844

### **Type of Organization**

Professional Society  
Standards Developer

### **Scope**

A medical specialty organization which furthers the study of the nature, treatment, and prevention of mental disorders; develops standards for psychiatric facilities; disseminates information and promotes psychiatric education.

### **Standardization Activities**

Actively participates in development of standard classification for mental illness and the Diagnostic and Statistical Manual for Mental Disorders, published by the APA, and used throughout the world. Serves as consultant to the World Health Organization on the publication, International Classification of Diseases.

Joins with the AMA Council on Medical Education and the Residency Review Committee for Psychiatry in establishing standards for approval of residency training programs in psychiatry and is a member organization of the American Board of Psychiatry and Neurology which gives examinations to certify physicians as qualified in psychiatry. Is represented on the Professional and Technical Advisory Committees for Psychiatric Facilities, the Hospital Accreditation Program, Long Term Care Program and Ambulatory Services Care Program of the Joint Commission on Accreditation of Healthcare Organizations.

Activities are conducted through the APA Council on Medical Education; the Council on Economic Affairs and its Committees on Hospital Based/Relates Psychiatric Services; and the Council on Research and Development and its Task Force on Diagnostic and Statistical Manual IV.

### **Availability**

Distributed directly

### **Formerly**

Association of Medical Superintendents of American Institutions for the Insane (1892)  
American Medico-Psychological Association (1921)

### **Keywords**

psychiatry; health care; education;

## AMERICAN PSYCHOANALYTIC ASSOCIATION

Helen Fischer, Administrative Director

309 East 49th Street  
New York, New York 10017  
(212) 752-0450

Founded: 1911

Standards Staff: 4

**Type of  
Organization**

Professional Society  
Standards Developer

**Standards  
Development**

Standards developer since 1911  
150 members actively involved in standards activities

**Certification**

Certification in Adult and Child and Adolescent  
Psychoanalysis.  
Accreditation program for training institutions.

**Scope**

A national membership organization of medical  
psychoanalysts. Studies and advances psychoanalysis;  
advocates and maintains standards for the training of  
psychoanalysts and for the practice of psychoanalysis;  
fosters the integration of psychoanalysis with other  
branches of medicine and encourages research in all  
fields having to do with the scientific knowledge and  
welfare of man.

**Standardization  
Activities**

Maintains Board of Professional Standards with eight  
standards setting committees. Conducts site visits in  
conjunction with accreditation activities of new  
training facilities. Certifies graduates of accredited  
Institutes.

**Availability**

Distributed directly

**Keywords**

psychoanalysis; psychology; psychiatry; education;

## AMERICAN PUBLIC HEALTH ASSOCIATION

William H. McBeath, M.D., M.P.H., Executive Director

1015 15th Street NW  
Washington, DC 20005

Founded: 1872

**Type of  
Organization**

Professional Society  
Standards Developer

<b>Scope</b>	Professional organization of public health officials and practitioners which seeks to protect and promote personal and environmental health. Promulgates standards, establishes uniform practices and procedures, develops etiology of communication and performs research in public health related topics.
<b>Standardization Activities</b>	<p>Develops standards of procedures, personnel qualifications, and practice. Publishes and updates Standard Methods for the Examination of Dairy Products; Standard Methods for the Examination of Water and Wastewater; and Standards for Healthful Housing. Publishes other works where standards are included, for example, Suggested Ordinance and Recommendations Covering Public Swimming Pools. Also publishes standard methods for the Microbiological Examination of Ambient Air. APHA is presently developing guidelines for medical experimentation on captive populations.</p> <p>Represented on various boards of the American National Standards Institute (ANSI) and cosponsors Sectional Committee A40 on Minimum Requirements for Plumbing. APHA's Committee on Professional Education has developed a series of education qualifications for public health workers, as well as standards of accreditation for schools of public health. AOSH committees also develop publications on such subjects as TB control, radiological health and chronic disease which serve as guides for practitioners, scientists, technologists, administrators, and others concerned with public health problems.</p>
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Absorbed Conference on Community Health Planning
<b>Keywords</b>	public health; sanitation; education;

#### **AMERICAN PUBLIC WORKS ASSOCIATION**

Richard H. Sullivan, Executive Director  
Rita E. Knorr, Director of Research

1313 East 60th Street  
Chicago, Illinois 60637  
(312) 667-2200

FAX: (312) 667-2304

Founded: 1894

<b>Type of Organization</b>	Professional Association Standards Developer
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<b>Standards Development</b>	Eleven standards None processed through ANSI
<b>Standards Development</b>	Developed standards are a result of a specific project and are designated by the name of the project.
<b>Government Adoption</b>	Local governmental agencies and manufacturers have accepted the standards on a voluntary basis.
<b>Scope</b>	<p>Membership consists of all persons interested in the theory and practice of design, construction, maintenance, administration and operation of public works facilities and services. Conducts historical and current research</p> <p>Standards are developed through research funded by members and other interested parties. Standards are reviewed by sponsors of research studies and others impacted by the work.</p>
<b>Standardization Activities</b>	<p>Developed a standard motor equipment classification system and standards for implementation of Geo-Basic Information Systems for local governments and utilities. Participated with the U.S. Army Corps of Engineers in the adaptation of a standard Pavement Condition Index for use on streets and a standardized visual inspection for built-up roofs.</p> <p>The APWA Research foundation established a nonprofit organization called Instrumentation Testing Service, Inc., to develop test procedures for instrumentation used in water and waste water treatment and the conduct of laboratory evaluations of the equipment.</p>
<b>Availability</b>	Sold directly
<b>Keywords</b>	public works; computer assisted mapping; water treatment; waste water; construction; maintenance; public buildings; inspection; management and operations; transportation; solid wastes; water resources; municipal engineering;

#### AMERICAN RAILWAY ENGINEERING ASSOCIATION

Louis T. Cerny, Executive Director

50 F Street, NW  
Washington, DC 20001  
(202) 639-2190

Founded: 1899

Standards Staff: 6

<b>Type of Organization</b>	Professional Society Standards Developer since 1905
<b>Standards Development</b>	400 recommended practices developed None processed through ANSI 24 Committees active in developing recommended practices
<b>Standards Designation</b>	AREA prefix; some rail sections carry only RE prefix
<b>Government Adoption</b>	Recommended practices are used as specifications in government contracts.
<b>Scope</b>	An international (the United States, Canada, and Mexico) professional association whose purpose is the advancement of knowledge pertaining to the scientific and economic location, construction, operation, and maintenance of railways.
<b>Standardization Activities</b>	Directed toward the principles, specifications, plans, and economics pertaining to the fixed-plant engineering, design, and construction of railways (except signals and communications), and allied services and facilities. Recommended practices are published in the AREA Bulletin for comment. Once approved for publication by the Association's Board of Directors, they appear in the Manual for Railway Engineering. Works closely with the Department of Transportation's Federal Railroad Administration and Transportation Systems Center.
<b>Availability</b>	Distributed directly and through IHS.
<b>Formerly</b>	American Railway Engineering and Maintenance of Way Association
<b>Keywords</b>	transportation; construction; railroads; track; railway; rails;

#### **AMERICAN ROAD AND TRANSPORTATION BUILDERS ASSOCIATION**

T. Peter Ruane, President and CEO

Eighth Floor  
501 School Street, SW  
Washington, DC 20024  
(202) 488-2722

FAX: (202) 488-3631

Founded: 1902

<b>Type of Organization</b>	Trade Association Standards Developer
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<b>Scope</b>	<p>Fosters and encourages the full utilization of scientific and educational measures toward the accomplishment of an integrated national highway, airport, and urban public transportation system adequate to accommodate the growth and advancement of transportation necessary for the civil economy and the national defense.</p> <p>Membership includes federal, state, county and city highway engineers and administrators, as well as consulting engineers, highway contractors, producers of highway materials, manufacturers and distributors of highway machinery, and educators in civil engineering colleges and universities.</p>
<b>Standardization Activities</b>	<p>Committees study problems relating to highway legislation, finance, design, construction, maintenance, equipment, and operation. Efforts are directed toward development of improved standards to bring about utilization of new materials and eliminate waste and improper methods.</p> <p>Cooperates with other associations in joint activities. Publishes bulletins dealing with practical application of technical and semi-technical developments.</p>
<b>Availability</b>	Distributed directly
<b>Formerly</b>	American Road Makers (1910)
<b>Keywords</b>	highways; road construction; construction; transportation;

#### **AMERICAN SOCIETY FOR ARTIFICIAL INTERNAL ORGANS**

	<p>Karen Burke, Executive Director</p> <p>National Office P.O. Box C Boca Raton, Florida 33429 (407) 391-8589</p> <p>Founded: 1955</p>
<b>Type of Organization</b>	<p>Scientific Society</p> <p>Works through other organizations to develop standards</p>
<b>Representation</b>	<p>The ASAIIO Renal Disease and Detoxification Committee works in collaboration with its counterpart in AAMI. The society is also represented on the Medical Devices Standards Board of ANSI. Members are called upon to contribute to the FDA activities in medical device</p>



regulation, such as the Cardiovascular and Gastroenterology-Urology Medical Device Classification Panels. Internationally, members represent the United States on ISO/TC 150 SC2: Surgical Implants and Artificial Organs (Cardiac Valves, Pacemakers, Vascular Prostheses, Blood Gas Exchangers and Hemodialysis). Additionally, members contribute to the development of IEC document TC 62D: Hemodialysis Equipment.

**Scope** An organization which promotes the development and safe usage of artificial internal organs, with 1,400 members from both medical and engineering specialties. At the present time approximately two-thirds of the activities are in the fields of artificial kidneys and artificial hearts. The remainder are devoted to innovations in other areas, such as plasmapheresis and artificial organs for liver failure, diabetes mellitus and disorders of the genitourinary tract.

**Standardization** Members are active in the development of a voluntary medical device standards and guidelines for the user through a variety of mechanisms, including consensus symposia, investigation into the risks and hazards of medical devices, and contributions to the efforts of standards making organizations. Standards committees of the Society are appointed by the President. The Renal Diseases and Detoxification Committee meets annually; members of this committee are also members of the AAMI Committee in this field. Resulting standards are subjected to the review of processes of AAMI and ANSI.

**Keywords** artificial organs; health care; medical devices;

#### AMERICAN SOCIETY FOR ENOLOGY AND VITICULTURE

Dr. Steven Fike, Technical Projects Committee Director  
P.O. Box 1855  
Davis, California 95617  
(916) 753-3142

Founded: 1950

**Type of Organization** Professional Society  
Works through other organizations to develop standards

**Scope** A nonprofit corporation comprised of enologists, viticulturists and suppliers to the wine and grape industry, exclusively for scientific and literary purposes in enology and viticulture. Publishes the

American Journal of Enology and Viticulture which contains original research papers, short abstracts, and reviews. Sponsors scholarship awards and an annual meeting.

**Standardization Activities** The Technical Projects Committee develops standards specifically for NIST.

**Formerly** American Society of Enologists (1984)

**Keywords** enology; viticulture; wine; winemaking; beverages;

**AMERICAN SOCIETY FOR MEDICAL TECHNOLOGY**

Lynn Podell, Esq., Executive Director

2021 L Street, NW #400  
Washington, DC 20036  
(202) 785-3311

FAX: (202) 466-2254

Founded: 1932

**Type of Organization** Professional Society  
Standards Developer

**Scope** A national professional organization composed of 20,000 members committed to providing efficient health care, quality service and accurate information/test results cost effectively to the public. Also committed to providing proper educational training to future clinicians as well as continuing education to clinical laboratory professionals/educators.

**Standardization Activities** Standards for day to day practice are covered in ASMT's competence assurance documents, which undergo regular review for continued relevancy; ASMT's position papers; and National Committee for Clinical Laboratory Standards (NCCLS) specifications for biology and chemistry reagents or reference materials, controls for equipment, etc.

Works with the Food and Drug Administration in conducting a pilot project for surveillance of products used in clinical laboratories.

A member of the Medical Device Technical Advisory Board of the American National Standards Institute.

Cooperates with NCCLS and the International Association of Medical Laboratory Technologists in the development of international standards.

**Availability** Distributed directly

<b>Formerly</b>	American Society of Medical Technologists (prior to 1972) American Society of Chemical Laboratory Technicians (1936)
<b>Keywords</b>	medical; medical technology; testing; laboratory equipment;
<b><u>AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING</u></b>	
	Ronald H. Selner, Manager, Technical Services  4153 Arlingate Plaza Caller #28518 Columbus, Ohio 43228 (614) 274-6003  Founded: 1941
<b>Type of Organization</b>	Technical Society Develops Recommended Practices
<b>Certification</b>	Level III Examinations are offered in radiography, ultrasonics, eddy current, leak testing, neutron radiography, magnetic particle, liquid penetrant, and acoustic emission examinations. Personnel certification requirements are detailed in publication SNT-TC-1A.
<b>Scope</b>	A nonprofit organization devoted exclusively to nondestructive testing.
<b>Standardization Activities</b>	Helps develop and review codes and standards for the inspection of conventional and nuclear power plants, marine, transportation and aviation industry products. Through its volunteer members, liaison is maintained with many governmental bodies and standards organizations such as ASME, ASTM, ASM, ABS, NRC, ANSI, and ISO.
<b>Availability</b>	Sold directly and through IHS.
<b>Keywords</b>	nondestructive testing; radiography; ultrasonics; leak testing; magnetic particle; eddy current; liquid penetrant; acoustic emission; laboratory testing; quality assurance; neutron radiography;



## AMERICAN SOCIETY FOR PHOTOGRAMMETRY AND REMOTE SENSING

William D. French, CAE, Executive Director

5410 Grosvenor Lane  
Suite 210  
Bethesda, Maryland 20814  
(310) 493-0290 FAX: (301) 493-0208

Founded: 1934

### **Type of Organization**

Technical Society  
Standards Developer since 1939

### **Standards Designation**

ASPRS prefix

### **Government Adoption**

Map accuracy standards adopted by the Office of Management and Budget for use by government agencies such as Geological Survey, National Ocean Survey, Defense Mapping Agency, Forest Service, Federal Highway Administration.

### **Certification**

Active voluntary program awarding qualified individuals title of "Certified Photogrammetrist."

### **Scope**

Primarily concerned with the art, science, and technology of measuring and interpreting photographic and remote-sensor images. Scope of interest includes the fields of aerial photography, photogrammetric surveys, photographic interpretation, remote sensing, and Geographic Information Systems (GIS). Publishes a monthly journal, devoted to new developments, equipment, techniques, and applications in these areas.

### **Standardization Activities**

Developed nomenclature for photogrammetry and remote sensing standards. Developing standards for large scale photogrammetric mapping. Publishes manuals which are generally accepted as standards of reference including the Manual of Photogrammetry, the Manual of Photographic Interpretation, the Manual of Color Aerial Photography, and the Manual of Remote Sensing. Maintains Committees on specifications and standards and also nomenclature. Contributes to programs aimed at the standardization of definitions and terminology. Actively participates in the work of the International Society for Photogrammetry and Remote Sensing.

### **Availability**

Sold directly

### **Formerly**

American Society of Photogrammetry (1985)

<b>Keywords</b>	photogrammetry; remote sensing; aerial photography; mapping; surveying; geographic information systems; land information systems;
<b><u>AMERICAN SOCIETY FOR QUALITY CONTROL</u></b>	
	Paul E. Borawski, Executive Director
	310 West Wisconsin Avenue Milwaukee, Wisconsin 53203 (414) 272-8575 FAX: (414) 272-1734
	Founded: 1946 Standards Staff: 1
<b>Type of Organization</b>	Technical Society/Professional Society Standards Developer
<b>Standards Development</b>	Standards developer since 1947 12 existing projects All processed through ANSI Draft standards available for review 19 active standards
<b>Standards Designation</b>	ANSI/ASQC prefix
<b>Secretariats</b>	ANSI Z-1 Committee on Quality Assurance U.S. TAG for ISO/TC 69 on Statistical Methods, TC 176 on Quality Management and Quality Assurance; and Subcommittee 1 of ISO/TC 69 on Statistical Methods
<b>Scope</b>	Advances the theory and practice of quality. Creates, promotes, and stimulates interest in the advancement and diffusion of knowledge of the science of quality and of its application to manufacturing and service industries.
<b>Standardization Activities</b>	Maintains a Standards Council which directs and coordinates national and international standards activities.
<b>Availability</b>	Distributed directly and through IHS, Global, and ANSI.
<b>Keywords</b>	quality control; quality assurance; sampling; inspection; quality systems; quality management;

## AMERICAN SOCIETY FOR TESTING AND MATERIALS

Joseph O'Grady, President

1916 Race Street  
Philadelphia, Pennsylvania 19103  
(215) 299-5400                      Telex: 710-670-1037/ASTM PHA  
FAX: (215) 977-9679

Founded: 1898

Standards Staff: 200

**Type of  
Organization**

Technical Society  
Standards Developer

**Standards  
Development**

8,500 active standards  
Metric Equivalency Required  
32,000 members, including 4,000 international  
135 Technical Committees  
Any interested party may participate

**Standards  
Designation**

ASTM

**Government  
Adoption**

The Department of Defense has adopted 2,000 standards. Local building codes reference 600. The following agencies also have adopted ASTM Standards: General Services Administration, Public Building Service; Department of Veterans Affairs; Environmental Protection Agency; Food and Drug Administration; Occupational Safety and Health Administration; National Institute of Occupational Health and Safety; Department of Energy; Department of Housing and Urban Development; Department of Agriculture; and Department of Transportation.

**Certification**

No certification, qualification, or accreditation programs

**Scope**

A nonprofit organization formed to develop standards on characteristics and performance of materials, products, systems, and services; and to promote related knowledge. Standards include classifications, guides, practices, specifications, terminology, and test methods.

**Standardization  
Activities**

Standards cover iron and steel products; nonferrous metal products; metal test methods and analytical procedures; construction; petroleum products; lubricants and fossil fuels; paints; related coatings, and aromatics; textiles; plastics; rubber; electrical insulation and electronics; water and environmental technology; nuclear, solar, and geothermal energy;



medical devices; general methods and instrumentation, general products, chemical specialties, and end use products.

Standard developed by the Society's committees are published in the 68 volume Annual Book of ASTM Standards. Hundreds of technical papers and reports presented at ASTM symposia and meetings are published in Special Technical Publications, the Society's monthly magazine "Standardization News," and in quarterly publications. All are distributed worldwide.

ASTM standards are developed by those having expertise in the specific areas who choose, voluntarily, to work with the ASTM system-producers, users, ultimate consumers, and representatives of government and academia. ASTM provides a forum within which these people can meet on a common ground to write standards that will best meet the needs of all the interested parties. The ASTM system adheres to the principles of due process, assuring equal access to and equal voice in the standards forum.

Draft standard undergo an exhaustive balloting process from the subcommittee, to main committee, and to the entire Society -- with careful attention paid to minority opinions at each balloting level -- before they are published as official ASTM standards.

**Availability**

Distributed directly and through IHS, Global, and NSA

**Keywords**

materials; products; systems; services; testing; concrete; building; textiles; machinery; office products; electrical equipment; safety; defense environment; public health; medical devices; laboratory equipment; consumer products; industrial equipment; general;

**AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS**

Russell H. Hahn, Director of Standards  
and Technical Services

2950 Niles Road  
St. Joseph, Michigan 49085  
(616) 429-0300

Founded: 1907

Standards Staff: 3

**Type of  
Organization**

Technical Society  
Standards Developer

<b>Standards Development</b>	Standards developer since 1909 145 technical committees and subcommittees active or potentially active in standards development 189 standards, engineering practices, and data, most with dual SI-customary units Accredited by ANSI; 34 standards approved by ANSI
<b>Standards Designation</b>	S, Standard; EP, Engineering Practice; D, Data
<b>Government Adoption</b>	OSHA regulations for agricultural equipment are based on ASAE standards, but ASAE standards have not been formally adopted by the government.
<b>Certification</b>	No certification, qualification, or accreditation programs.
<b>Scope</b>	Professional and technical organization of members worldwide who are interested in engineering knowledge and technology for agriculture, associated industries and related resources. Develops engineering standards used in agriculture. Sponsors international technical meetings and continuing education programs.
<b>Standardization Activities</b>	<p>Develops voluntary standards for agricultural equipment systems, facilities, and processes. Standards cover technical areas within the six ASAE technical divisions/institutes: Emerging Technologies, Electrical and Electronic Systems, Food and Process Engineering, Power and Machinery, Soil and Water, and Structures and Environment. Standards considered national in scope and used for numerous international standardization proposals. ASAE's cooperative Standards Program encompasses the development, adoption, publication, distribution, and maintenance of needed voluntary standards for industry and the consumer in agriculture.</p> <p>Maintains liaison with other technical societies such as ASHS, AFGC, ASME, ASHRAE, ASTM, IEEE, SAE, and ANSI. ASAE participates in U.S. Technical Advisory Groups for ISO/TC 23, Agricultural Tractors and Machinery; ISO/TC 31 Tires, Rims, and Valves; and ISO/TC 131 Fluid Power Systems and Components.</p>
<b>Availability</b>	Available directly and through IHS and Global
<b>Keywords</b>	agriculture; irrigation; structures; drainage; livestock; grain; machinery; safety; food processing; electronic; environmental; electric; farmstead equipment;

## AMERICAN SOCIETY OF ANESTHESIOLOGISTS

Glenn W. Johnson, Executive Director

515 Busse Highway  
Park Ridge, Illinois 60068  
(312) 825-5586

Founded: 1905

### **Type of Organization**

Professional Society  
Works through other organizations to develop standards

### **Representation**

Individual members participate in standardization activities of ANSI, ASTM, ISO, and NFPA.

### **Scope**

A national medical society composed of over 26,000 members, most of whom are physicians specializing in the practice of the medical specialty of anesthesiology. Among its purposes is to "raise the standards of the specialty by fostering and encouraging education, research and scientific progress in anesthesiology" and to disseminate information concerning the specialty.

### **Standardization Activities**

The society works within the voluntary standards system to present the views of anesthesiologists on matters relating to the agents, devices, and facilities they use in their practices. Its Committee on Equipment and Standards deals with mechanical, electrical, and structural matters as they relate to anesthesiology. This committee is charged with the duties of representing the society in activities related to standards development and supervising and coordinating liaison activities to organizations such as ANSI, ASTM, ISO, NFPA, and other professional and technical bodies in the medical field.

The committee on Equipment and Standards maintains liaison with the standardization work of other professional and technical bodies in the medical field. While previously active in ANSI Committee Z79, Standards for Anesthesia and Respiratory Equipment, ASA currently participates in ASTM Committee F29.

### **Formerly**

Long Island Society of Anesthetists (1911)  
New York Society of Anesthetists (1936)  
American Society of Anesthetists (1945)

### **Keywords**

anesthesia; respiratory equipment; medical; medical devices;



## AMERICAN SOCIETY OF BREWING CHEMISTS

Raymond J. Tarleton

3340 Pilot Knob Road  
St. Paul, Minnesota 55121  
(612) 454-7250

Founded: 1934

**Type of  
Organization**

Professional Society  
Standards Developer

**Standards  
Development**

200 standard methods of analysis

**Standards  
Designations**

ASBC Method

**Certification**

Check Sample services provide the opportunity for subscribing laboratories to check their analytical accuracy on a periodic basis. For each service, a statistical summary of the analytical data is provided for use as an internal check. Check Sample services include Malt Analysis, Cereal Adjunct, Beer Analysis, and Hop Analysis. Another service available is Malt for Standardizing Mills. Standards malt is used to insure reliable milling and grinding samples for industry-wide analysis. The Soluble Starch service provides a special starch product available only to ASBC members, and is lot-checked by ASBC.

**Scope**

750 members worldwide engaged in all aspects of brewing. Maintains high professional standards; conducts, promotes, and encourages scientific research in brewing and related industries; studies, develops, and adopts uniform methods for the analysis of raw materials, supplies, and products; holds meetings and disseminates technical knowledge.

**Standardization  
Activities**

Publishes ASBC Methods of Analysis which contain 200 official ASBC methods relating to brewing chemistry. Also has available Tables for Extract in Malt and Cereals, and Tables related to Wort, Beer, Brewing Sugars and Syrups.

**Availability**

Sold directly

**Keywords**

beer; beverages; testing;

## AMERICAN SOCIETY OF CINEMATOGRAPHERS

Dan Ross, Chief Executive Officer

1782 North Orange Drive  
Hollywood, California 90028  
(213) 876-5080

Founded: 1919

Standards Staff: 1

**Type of  
Organization**

Professional Society  
Standards Developer

**Scope**

Professional directors of motion picture and television photography and others affiliated with cinematography.

**Standardization  
Activities**

Offers recommendations to the Engineering Committee of the Society of Motion Picture and Television Engineers. Processes standards through ANSI PH22. Publishes the American Cinematographer Manual which lists standards.

**Availability**

Distributed directly

**Keywords**

cinematography; photography;

## AMERICAN SOCIETY OF CIVIL ENGINEERS

Edwin Jones, Director, Codes and Standards

345 East 47th Street  
New York, New York 10017  
(212) 705-7252

Founded: 1852

Standards Staff: 1

**Type of  
Organization**

Technical Society  
Standards Developer

**Standards  
Development**

Standards developer form 1875-1895 and 1974-present  
600 members and non-members participating in standards activities

**Standards  
Designation**

ASCE prefix

**Certification**

No certification, qualification, or accreditation programs

**Scope**

A 105,000 member organization for civil engineers in the United States dedicated to the civil engineering profession, offering opportunities for individual

professional development and providing a forum for communication between individuals and groups involved in the practice of civil engineering.

**Standardization  
Activities**

Maintains activities in the following areas: Composite Deck Slab Standards; Steel Deck and Concrete Diaphragm Standard; Pile Foundation Standard; Drilled Shafts Standard; Temporary Excavations, Construction Dewatering and Underpinning Standard; Soil Exploration Standard; Shallow Foundations Standard; Design and Analysis of Nuclear Safety Related Earth Structures Standard; Seismic Analysis of Safety Related Nuclear Structures Standard; Oxygen Transfer Standard; Structural Applications of Steel Cables for Buildings Standard; Structural Condition Assessment of Existing Buildings Standard; Transmission Structure Foundation Design Standard; Minimum Design Loads for Buildings and Other Structures Standard (formerly ANSI A58.1); Masonry Structures Standards (joint with American Concrete Institute) Urban Subsurface Drainage Standards; Design of Steel Transmission Towers Standard; Inspection of Small Dams Standard; Permanent Railing Systems Standards; Stainless Steel Cold-Formed Sections Standards; Design of Air Supported Structures Standard; Design Loads on Structures During Construction Standard; Design of Engineered Wood Construction Standard; Design of Structures for Fire Protection Standard; Guidelines for Artificial Ground Water Recharge Standard. Technical and Task Committees seek to advance knowledge in specific engineering areas, focusing on relevant problems and concerns, by publishing standards, manuals, guides, reports, proceedings, and by conducting conferences and workshops.

**Availability  
Keywords**

Distributed directly and through ANSI, Global, and IHS civil engineering; decks; slabs; structures; oxygen transfer; foundations; nuclear safety; building; construction;

**AMERICAN SOCIETY OF ELECTROPLATED PLASTICS**

David W. Barrack, Executive Director

1101 14th Street, NW  
Suite 1100  
Washington, DC 20005  
(202) 371-1323

Founded: 1966

**Type of  
Organization**

Trade Association  
Standards Developer



<b>Standards Development</b>	Standards Developer since 1967 ASTM approved
<b>Standards Designations</b>	ASEP prefix
<b>Scope</b>	A nonprofit organization devoted to improving the efficiency of its industry and to promoting the use of electroplated plastics, with a domestic and foreign membership of 80 companies.
<b>Standardization Activities</b>	Cooperates with ASTM in developing specifications which include parts design; mold design; substrate fabrication requisites; plastic product qualification; test procedures and standards (including standard test panel, adhesion, corrosion, thermal cycling, and appearance); performance capabilities (including substrate, plate construction, and proven applications); handling of molded parts for plating; and industry terms. Publishes Standards and Guidelines which include these standards.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	plastics; electroplated plastics; manufacturing; materials;

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS**

Jim L. Heldenbrand, Manager of Standards

1791 Tullie Circle NE  
Atlanta, Georgia 30329  
(404) 636-8400

Founded: 1894

Standards Staff: 6

<b>Type of Organization</b>	Technical Society Standards Developer
<b>Standards Development</b>	Standards developer since 1959 Over 400 members and non-members participating in standards activities Most standard processed through ANSI Draft standards available for review 69 active standards
<b>Standards Designation</b>	ASHRAE prefix

<b>Government Adoption</b>	ASHRAE Standard 90, Energy Conservation in New Building Design, serves as the basis for building code provisions in 47 states.
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Secretariats</b>	U.S. Technical Advisory Group for ISO/TC 8.6, Refrigeration ISO/TC 86, Subcommittees 1, Safety; 6, Factory Assembled Units; and 8, Refrigerants and Lubricants ISO/TC 117, Subcommittee 2, Industrial Fans ISO/TC 144, Subcommittee 1, Air Distribution and Diffusion
<b>Scope</b>	An international membership organization operated for the exclusive purpose of advancing the arts and sciences of heating, refrigeration, air conditioning and ventilation, the allied arts and sciences, and related human factors for the benefit of the public.
<b>Standardization Activities</b>	Assists industry and the public by offering a uniform method of testing for rating purposes, and by suggesting safe practices in designating and installing equipment, by providing proper definitions of this equipment and by providing other information which may serve to guide the industry. Creation of standards is determined by need, and conformance to them is completely voluntary.  Maintains 60 active standards committees, supported by a staff organization administered by the Manager of Standards. Continuously promulgates new standards and reviews current standards to reflect technical advances in the field.  A series of standards pertaining to energy conservation in existing building is in preparation. Other standards specify methods of testing for rating equipment, ventilation levels for indoor air quality, and conditions for indoor comfort.
<b>Availability</b>	Sold directly and through ANSI, IHS, and Global
<b>Formerly</b>	Merger of American Society of Heating and Air-Conditioning Engineers and the American Society of Refrigerating Engineers (1959)
<b>Keywords</b>	heating; refrigeration; air conditioning; ventilation; energy conservation; environmental quality; construction; building;

## AMERICAN SOCIETY OF MECHANICAL ENGINEERS

Melvin R. Green, Associate Executive Director,  
Codes and Standards

345 East 47th Street  
New York, New York 10017  
(212) 705-7822                      Telex: 710-581-5267

Founded: 1880                      Standards Staff: 74

### **Type of Organization**

Technical Society  
Standards Developer

### **Standards Development**

600 active standards  
Nearly all processed through ANSI  
More than 120 standards committees and 6,000  
individuals develop and maintain these standards.

### **Government Adoption**

120 standards have been adopted by the Department of  
Defense (DoD). Many others have been adopted by the  
Coast Guard and one by the Nuclear Regulatory  
Commission. The Boiler and Pressure Vessel Code has  
been widely adopted by responsible state and provincial  
agencies in the U.S. and Canada.

### **Certification**

ASME operates accreditation programs in connection with  
its activity for boilers and boiler code pressure  
vessels, for nuclear plant components, and safety and  
pollution prevention equipment used in offshore oil and  
gas operations. The society authorizes manufacturers  
to apply ASME Code Symbol Stamps to their product,  
indicating compliance with the respective code or  
standard. The society also administers Certification  
Programs relating to Elevator Inspections and Resource  
Recovery Facility Operators.

### **Scope**

An educational and scientific society organized to  
promote the art and science of mechanical engineering  
and the allied arts and sciences; encourage original  
research; foster engineering; promote the exchange of  
information of engineers among themselves and with  
allied technologists; broaden the usefulness of the  
engineering profession in cooperation with other  
engineering and technical societies; and promote a high  
level of ethical practice.

### **Standardization Activities**

Standards development is an important part of the  
society's activity to promote the art and science of  
mechanical engineering. The ASME Council on Codes and  
Standards supervises the standardization activities of  
the society under the authority delegated to it by the  
ASME Board of Governors. Standards are developed under  
ANSI Accredited Organization Procedures. Documents



presented to the Society under the ANSI Canvass Method, Where ASME has a Standards Committee whose scope covers that of the proposed standard, are reviewed by the appropriate committee.

Participates actively in international standardization through its sponsorship of ASME Committees, which serve as the USA Technical Advisory Groups for the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC).

The Boiler and Pressure Vessel Code is ASME's most widely recognized standards publication. It is a definitive compilation of safety and performance requirements for power and heating boilers, nuclear reactors and power plants, as well as pressure vessels. The Performance Test Codes define accepted methods of determining performance and efficiency for a wide range of equipment and systems, from safety valves and gas turbines to fuels, incinerators, and centrifugal pumps. Many other fields have benefitted from ASME standards and codes. These include drafting practices and symbols, screw threads, bolts, nuts, rivets, and other fasteners in conventional and metric measure; machine tools, cutters and accessories; valves, pipe fittings, and plumbing fixtures; cranes, conveyors, and related equipment; and safety codes for elevators and escalators.

**Availability** Distributed directly and through ANSI, IHS, Global, and NSA

**Keywords** abbreviations; accreditation; boiler code; cranes; drafting practices; elevators; fasteners; freight containers; hand tools; industrial trucks; machine tools; machinery; nuclear; mechanical; plumbing; pollution prevention; pressure piping; pressure vessels; qualification; quality assurance; safety; solar energy; industrial equipment; valves;

#### AMERICAN SOCIETY OF PLUMBING ENGINEERS

John S. Shaw, CAE, Executive Director

3617 Thousand Oaks Boulevard  
#210  
Westlake, California 91362  
(805) 495-7120

Founded: 1964

**Type of Organization** Technical Society  
Works through other organizations to develop standards

<b>Representation</b>	National Standards Plumbing Code Committee of the National Association of Plumbing-Heating-Cooling Contractors, the American National Standards Institute (ANSI), the American National Standards Committee A40, International Association of Plumbing and Mechanical Officials (IAPMO), Southern Building Code Congress, International (SBCCI), and the American Society of Sanitary Engineers (ASSE), and on local code and administrative authorities.
<b>Scope</b>	A nonprofit professional technical society organized to elevate the field of plumbing to professional status. The only international organization devoted exclusively to the interests and concerns of plumbing engineering.
<b>Standardization Activities</b>	<p>Although ASPE does not publish standards, it is engaged in the important work of advising builders, architects, and property owners in the value, to them and to their projects, of well conceived, carefully prepared plumbing drawings and clear, concise specifications.</p> <p>ASPE's code committee examines all regulatory codes pertaining to the plumbing industry; submits proposed revisions or clarifications of codes to code writing authorities in an effort to simplify, standardize, and modernize all codes; and offers advisory services to other organizations or to governmental agencies involved in writing or enacting codes.</p>
<b>Keywords</b>	plumbing; codes; sanitation; building;

#### AMERICAN SOCIETY OF SAFETY ENGINEERS

Thomas F. Bresnahan, Director, Technical Services

1800 East Oakton Street  
Des Plaines, Illinois 60018-2187

(312) 692-4121

Founded: 1911

<b>Type of Organization</b>	Professional Society Standards Developer and works through other organizations to develop standards
<b>Secretariats</b>	ANSI Z87, Eye Protection; Z117, Confined Spaces; Z359, Fall Protection Equipment; A12/64, Workplace, Railings and Stairways

<b>Scope</b>	Composed of 23,000 career safety specialists organized to enhance the status and promote the advancement of all safety disciplines; foster the technical, scientific and managerial knowledge and skills of all safety and health professionals; and support the technical, social, and economic well-being of all safety practitioners.
<b>Standardization Activities</b>	The ASSE currently serves as secretariat to four ASSE accredited national standards committees for Eye Protection (Z87), Confined Spaces (Z117), Workplace, railings and stairways (A12/64), and Fall Protection Equipment (Z359). In addition, the Society appoints its safety professionals to various ANSI, NFPA, and other national standards writing organizations. It also participates on other standards making committees of other organizations where representation of the profession is appropriate. Recommendations of society members are offered to various governmental agencies when establishing advisory standards committees.
<b>Formerly</b>	Absorbed the United Association of Casualty Inspectors (1914)
<b>Keywords</b>	safety; safety engineering;

#### AMERICAN SOCIETY OF SANITARY ENGINEERING

	Gael H. Dunn, Executive Secretary
	P.O. Box 40362 Bay Village, Ohio 44140 (216) 835-3040
	Founded: 1906
<b>Type of Organization</b>	Technical Society Standards Developer
<b>Standards Development</b>	34 active standards Standards submitted for ANSI approval
<b>Standards Designation</b>	ASSE prefix
<b>Government Adoption</b>	Standards are referenced by a large number of government agencies.
<b>Certification</b>	ASSE Seal Program
<b>Scope</b>	Plumbers, contractors, apprentices, journeymen, inspectors, engineers, health officials, and



manufacturers interested in promoting public health and sanitation. Conducts research on plumbing and sanitation.

**Standardization  
Activities**

Develops performance standards for plumbing system components. Standards provide a tool for measuring quality and effectiveness of a product. Products meeting these standards are identified by the ASSE Seal. Components of plumbing systems include backflow prevention devices, pressure regulators, water hammer arresters, water mixing and shower control valves, anti-siphon hydrants, and other devices which directly affect public health and safety.

**Availability**

Distributed directly and through IHS

**Formerly**

American Society of Inspectors of Plumbing and Sanitary Engineering

**Keywords**

plumbing; construction; sanitation; public health;

**AMERICAN SOD PRODUCERS ASSOCIATION**

Douglas H. Fender, CAE, Executive Director

1855-A Hicks Road  
Rolling Meadows, Illinois 60008  
(708) 705-9898 FAX: (708) 705-8347

Founded: 1967

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

Objectives are to promote efficient and economical production of sod; to develop standards in the industry; to promote the production of better quality sod and its proper use; and to increase public awareness of the industry.

**Standardization  
Activities**

Developed national guideline specifications for sodding. Through use of sod specification, assistance has been provided to various state and federal agencies, architects, landscape architects, contractors, and a wide variety of professional turf grass managers.

**Availability**

Distributed directly

**Keywords**

sod; seed; turf; grass; agriculture;

## AMERICAN SOYBEAN ASSOCIATION

Kenneth L. Bader, Chief Executive Officer

P.O. Box 27300  
St. Louis, Missouri 63141  
(314) 432-1600 Telex: (23) 7407716

Founded: 1920

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Grain Standards Division, Foreign Agricultural Service, and Federal Grain Inspection Service of USDA
<b>Scope</b>	A nonprofit, soybean producer-owned trade association organized to expand markets for soybeans and soybean products overseas.
<b>Standardization Activities</b>	Works with NOPA, AFMA, AAFCO, and AOCS in monitoring standards, specifications and trading rules for soybeans, soybean meal, and soybean oil, both for domestic sale and sale into the export markets.
<b>Keywords</b>	soybean; agriculture;

## AMERICAN SPEECH-LANGUAGE AND HEARING ASSOCIATION

Stan Dublinski, Ed.D., Director  
Professional Practices Department

10801 Rockville Pike  
Rockville, Maryland 20852  
(301) 897-5700

Founded: 1925

Standards Staff: 6

<b>Type of Organization</b>	Professional Society Standards Developer
<b>Certification</b>	ASHA is the accrediting agency for college and university programs offering master's degrees in speech-language pathology and audiology and for programs offering clinical services in speech-language pathology and audiology to the public.
<b>Scope</b>	A national professional and scientific association representing over 60,000 speech-language pathologists and audiologists engaged in research, teaching, and clinical activities concerned with communication behavior and disorders. Maintains high standards of clinical competence for professionals providing

services to the public; encourages the development of comprehensive clinical service programs; promotes investigation of human communication and its disorders; and stimulates exchange of information about human communication.

**Standardization  
Activities**

Directed toward assuring quality of the speech-language pathology and audiology services provided to communicatively impaired persons. Develops standards for appropriate education and training of speech-language pathologists and audiologists. Accredits professional clinical service programs in speech-language pathology and audiology which meet criteria on organizational structure, quality service with functional, measurable outcomes, personnel, records, physical plant and equipment, community relations, and program evaluation. Incorporates ANSI standards on electroacoustic measurements of hearing aids; on permissible ambient noise during audiometric testing; and on calibration of audiometric equipment into Professional Services Board (PSB) clinical accreditation standards.

Maintains council on Professional standards which establishes and monitors all standards programs related to certification, continuing education, education and training, and professional services. Reviews and comments on standards proposed by ANSI that pertain to electro- and bioacoustic characteristics of audiometric equipment, hearing aids, and environments for hearing testing.

Standards are recognized by the Council of Postsecondary Accreditation, U.S. Department of Education, Joint Commission on Accreditation of Health Organizations, National Easter Seal Society, Council of State Administrators of Vocational rehabilitation and Commission on Accreditation of Rehabilitation Facilities.

**Availability**

Distributed directly

**Formerly**

American Speech & Hearing Association (1978)

**Keywords**

speech, language; audiology; hearing; acoustics; communication disorders; hearing aids; health; education; research;



## AMERICAN SPICE TRADE ASSOCIATION

Thomas F. Burns, Executive Vice President

580 Sylvan Avenue  
P.O. Box 1267  
Englewood Cliffs, New Jersey 07632  
(201) 568-2163

Founded: 1907

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Designation**

Official methods

**Scope**

Importers, grinders, and distributors of spices, oleo resins, and dehydrated vegetable seasonings.

**Standardization  
Activities**

Maintains a Standards Committee whose function is to adopt standards of quality for whole spices, seeds, and herbs imported at American ports of entry. Also, through the ASTA's Research Committee, in cooperation with RESEARCH 900, developed the values of the base nutrient composition of spices including ash, fat, fiber, moisture, protein, calories, and vitamin content. Cooperated with the Wisconsin Alumni Research Foundation to develop the content of twenty-one mineral elements in spices.

Developed a publication, Official Analytical Methods, for Analyzing spices. Also developed a publication, Official Microbiological Methods, which aims to designate official methods for the detection and enumeration of microorganisms occurring on spices, seeds, and herbs and to provide helpful information and guidelines to those responsible for the assessment of microbiological quality of spices and seasonings.

**Keywords**

spice; herb; food;

## AMERICAN STATISTICAL ASSOCIATION

Barbara A. Bailar, Executive Director

1429 Duke Street  
Alexandria, Virginia 22314  
(703) 684-1221

Founded: 1839

<b>Type of Organization</b>	Scientific/Professional Society Works through other organizations to develop standards
<b>Representation</b>	ASTM, ANSI, ISO
<b>Scope</b>	Composed of persons interested in applied or theoretical statistics. Through the Association, members mutually help each other with the exchange of professional knowledge and the reporting of new developments, insuring that statistical techniques discovered in one field are made known to workers in others. Includes users of statistics in business and industry, finance, agriculture, biology, medicine and public health; in virtually all specialized fields of science, education, engineering, economics, sociology, and demography; and in clinical statistics, military science, pharmacology, nutrition, public opinion polling, market analysis, psychometrics, biometrics, mathematical statistics, quality control, operations research, and many other fields.
<b>Standardization Activities</b>	While ASA does not set or promulgate official standards it does work to improve standards in statistical presentation. This is accomplished by participating in the development of American National Standards and ASTM standards for analyzing test data, assessment of normality and related subjects. Reviews and comments on ISO draft standards dealing with statistics.
<b>Keywords</b>	statistics; biometrics; biopharmaceutical; business; economics; testing; quality assurance; data processing;

#### AMERICAN TEXTILE MACHINERY ASSOCIATION

Harry W. Buzzerd, Executive Vice President

7297 Lee Highway  
Suite N  
Falls Church, Virginia 22042  
(703) 533-9251

Founded: 1933

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Scope</b>	A nonprofit, trade association devoted to the advancement of U.S. based manufacturers of textile machinery, ancillary equipment and parts. Major activities include government affairs, market development, technical services, and educational programs.

<b>Standardization Activities</b>	Develops criteria to help overcome industry problems; issued criteria for dust and noise measurement. Provides guidelines for innovative machinery technology. Worked with ANSI to develop the Safety and Health Standards for the Textile Industry.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	textile machinery; safety;

#### AMERICAN THORACIC SOCIETY

Marilyn T. Hansen, Executive Director

1740 Broadway, 16th Floor  
 New York, New York 10019-4394  
 (212) 315-8778 FAX: (212) 765-7876

Founded: 1905

<b>Type of Organization</b>	Professional Society Standards Developer
<b>Standards Development</b>	Standards developed in areas of pulmonary medicine, environmental health, infectious disease control, respiratory therapy, and medical devices. Standards not processed through ANSI. Draft standards available for review to members.
<b>Government Adoption</b>	Standards related to the treatment and control of tuberculosis are developed jointly with the Centers for Disease Control of the U.S. Public Health Service.
<b>Certification</b>	No certification or accreditation programs.
<b>Scope</b>	A professional society dedicated to the prevention and control of lung disease, and works to provide optimal health care services for individuals with lung disease. Emphasizes research and professional education. Serves as the medical section of the American Lung Association. Provides a forum for review of issues related to all aspects of lung health and the development of programs for the control of lung disease. Functions on a national level through cooperation with federal agencies and national voluntary health organizations.
<b>Standardization Activities</b>	Develops standards and classifications for tuberculosis and other respiratory diseases. Provides standards for spirometers which are adhered to by all product manufacturers. Standards developed by the Society are incorporated into accreditation programs for health care institutions. Maintains close liaison with



various government agencies primarily the Department of Health and Human Services. Acts as an advisor to federal agencies in their development of regulations and standards.

**Availability** Distributed directly and through state and local affiliates of the American Lung Association.

**Formerly** National Tuberculosis Association/American Trudeau Society (1960)

**Keywords** pulmonary; tuberculosis; medical devices; spirometry; lung disease; public health; health care;

#### AMERICAN VACUUM SOCIETY

Marion Churchill, Meetings and Office Manager

335 East 45th Street  
New York, New York 10017  
(212) 661-9404

Founded: 1953

**Type of Organization** Scientific Society  
Standards Developer

**Standards Development** 26 tentative standards  
None processed through ANSI  
Future standards to be offered for outside review

**Standards Designation** AVS prefix

**Scope** Scientists, engineers, and others interested in vacuum technology. Promotes education and research.

**Standardization Activities** Establishes standards for nomenclature, measuring techniques and such items as flanges and fittings on vacuum equipment. Standards drafted and reviewed under the auspices of the AVS Standards Committee.

**Availability** Distributed directly

**Keywords** vacuum technology; industrial equipment; flanges; leak detection;

## AMERICAN WALNUT ASSOCIATION

Larry R. Frye, Executive Director

5603 West Raymond  
Suite O  
Indianapolis, Indiana 46241  
(317) 244-3311

Founded: 1914

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Standardization Activities</b>	Cooperates in the development of grade rules for walnut lumber which are published by the National Hardwood Lumber Association. These grade rules are in general use both in the United States and foreign countries.
<b>Formerly</b>	Fine Hardwoods Association (1971)
<b>Keywords</b>	wood; hardwood; timber;

## AMERICAN WATCHMAKERS INSTITUTE

Michael P. Danner, Administrative Director

P.O. Box 11011  
Cincinnati, Ohio 45211  
(513) 661-3838

Founded: 1960

<b>Type of Organization</b>	Technical Society Standards Developer
<b>Certification</b>	Program includes examinations for certified watchmakers and master certified watchmakers. Also participates in state licensing.
<b>Scope</b>	A nonprofit corporation dedicated to the advancement of horology. Six thousand watchmakers and others who sell, service, or collect horological items. Activities include technical bulletins, a certification program, professional seminars, a monthly magazine, technical library, lending library and museum.
<b>Standardization Activities</b>	Involved in standards of craftsmanship through the dissemination of technical bulletins, and certification examinations. Aims to standardize the technical teaching techniques in the United States through its Education committee which operates through the schools.

Participated in the American National Standards Institute's program on the Standardization of Corundum Bearings in Horology, reviewed standards on chronometers for the U.S. Army, and reviewed railroad time standards for the National Institute of Standards and Technology. Worked with the British Horological Society to determine the proper placement of jewels in a 17 jewel watch.

<b>Availability</b>	Distributed directly
<b>Formerly</b>	Merger of Horological Institute of America and the United Horological Association of America.
<b>Keywords</b>	horology; watchmaking; instruments;

#### AMERICAN WATER WORKS ASSOCIATION

Robert R. Lamson, Director, Standards

6666 West Quincy Avenue  
Denver, Colorado 80235  
(303) 794-7711

Telex: 450895 AWWA DVR  
FAX: (303) 794-7310

Founded: 1881

Standards Staff: 7

<b>Type of Organization</b>	Scientific Society Standards Developer
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<b>Standards Development</b>	Standards developer since 1890 102 active voluntary consensus standards All processed through ANSI 22 standards under development 1,100 members active in standards activities
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<b>Standards Designations</b>	AWWA or ANSI prefixes
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<b>Government Adoption</b>	The Department of Defense (DoD) has adopted 16 AWWA standards.
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<b>Secretariats</b>	U.S. TAG for ISO/TC 5/SC2, Cast Iron and Ductile Iron Pipe
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<b>Scope</b>	Represents its 48,000 members in all areas concerning water supply. 2,000 volunteers participate in the development of technical documents. Holds three annual conferences as well as other special conferences each year. Publishes a monthly technical journal, news magazine, and publication for water system operating personnel.
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<b>Standardization Activities</b>	<p>Develops standards for a variety of pipe, fittings, valves, wells, pumps, water treatment chemicals, water storage tanks, water meters, and procedures for installation and use of these products. Solicits both membership and public approval in formulating standards. Use of standards is voluntary.</p> <p>Standard Methods for the Examination of Water and Wastewater, a compilation of 190 laboratory tests, is published jointly by AWWA, The American Public Health Association and the Water Pollution Control Federation. Developed ANSI standards A21.52 (Standard for Ductile Iron Pipe) and A21.14 (Fittings) - these were published by the American Gas Association (AGA).</p> <p>Participates in ISO/TC 5/SC2, Cast Iron and Ductile Iron Pipe, and ISO/TC 30/SC7, Water Meters.</p>
<b>Availability</b>	Distributed directly and through NSA, IHS, Global, and DIALORDER on DIALOG Information Services (File 245)
<b>Keywords</b>	water; pipe; valves; fittings; wells; pumps; tanks; water treatment chemicals; sanitation; reservoirs; construction; public health; meters;

#### AMERICAN WELDING SOCIETY

Dr. H. Glenn Ziegenfuss, Technical Director

550 NW LeJeune Road  
P.O. Box 351040  
Miami, Florida 33135  
(305) 443-9353

Telex: AMWELD SOC. No.51-9245  
FAX: (305) 443-7559

Founded: 1919

Standards Staff: 16

#### **Type of Organization**

Technical Society  
Standards Developer

#### **Standards Development**

Developing welding standards since 1928  
1,200 members participating in standards activities, including representation on 37 standards committees of ANSI, NFPA, AWWA, API, ASME, ASTM, and others  
120 active standards

#### **Standards Designations**

AWS, ANSI/AWS, AWS/SAE, AWS/AWWA, or AWS/AASHTO prefixes

#### **Government Adoption**

The Department of Defense has adopted 24 AWS filler metal specifications and four other standards.

<b>Secretariats</b>	<p>American Council of the International Institute of Welding (IIW)</p> <p>ANSI Z49, Safety in Welding and Cutting</p> <p>Sponsor US TAG for ISO/TC 44, Welding and Allied Processes</p> <p>Sponsor US TAG for ISO/TC 26, Electric Welding</p>
<b>Scope</b>	<p>Founded to advance the science and technology of welding. Prepares standards such as codes, specifications, recommended practices, and technical reports. Holds symposiums and technical meetings. Cooperates with other organizations in the preparation and review of welding standards. Active in the International Institute of Welding and the ISO Committee on Welding. Participates through ANSI in establishing the USA position on draft international standards. Acts as a technical advisor to representatives on the IEC Committee on Welding.</p>
<b>Standardization Activities</b>	<p>AWS technical committees prepare standards covering four broad categories:</p> <p>Welding fundamentals, including metric practice, symbols, testing, definitions, filler metals, safety and health, and computerization</p> <p>Welding processes, including resistance welding, thermal spraying, brazing, soldering, oxyfuel, ARC, friction, and high energy</p> <p>Inspection of welds, including methods, mechanical testing, and qualification of welders and procedures</p> <p>Industrial applications of welding, including structural, marine construction, water tanks, automotive, sheet metal, piping and tubing, iron castings, machinery and equipment, railroad, and robotics</p>
<b>Availability</b>	<p>Sold directly and through ANSI, IHS, and Global domestically, and through several foreign agencies</p>
<b>Keywords</b>	<p>brazing; soldering; filler metals; welder qualification; welding; thermal cutting; safety; manufacturing; structural welding; thermal spraying;</p>

#### **AMERICAN WIRE PRODUCERS ASSOCIATION**

Robert T. Chancler, Managing Director

1101 Connecticut Avenue, NW  
Suite 700  
Washington, DC 20036  
(202) 857-1155

Founded: 1937

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1944
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Scope</b>	A nonprofit trade association of companies which manufacture from steel rod, all forms of steel alloy wire for industrial uses. Products include spring wire, stapling wire, rope wire, and tire bead wire.
<b>Standardization Activities</b>	Maintains a Technical Committee which publishes two Standards Manuals for round wire and flat and shaped wires. These contain recommended standards for 160 steel wire commodities. Developed a technical program to provide manufacturers and purchasers with technical information relating to the production of specialty wire.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Independent Wire Producers Specialty Wire Association
<b>Keywords</b>	specialty wire; wire; materials;

#### AMERICAN WOOD-PRESERVERS ASSOCIATION

John D. Ferry, Secretary/Treasurer

P.O. Box 849  
Stevensville, Maryland 21666  
(301) 643-4163

Founded: 1904

Standards Staff: 2

<b>Type of Organization</b>	Technical Society Standards Developer
<b>Standards Development</b>	Standards developer since 1930 200 members actively participating in standards development 2,000 members given opportunity to vote on standards approval Several standards developed in cooperation with ANSI
<b>Standards Designation</b>	AWPA prefix



<b>Government Adoption</b>	AWPA Standards are used in federal specifications. Federal Specification TT-W-571 on Wood Preservation parallels AWP standards.
<b>Scope</b>	An international technical society devoted to research and development of wood preservation chemicals and treating practices for use in the United States and other countries.
<b>Standardization Activities</b>	Develops standards and specifications for wood preservatives and their introduction into the materials to be preserved. Standards cover preservatives, treatment of commodities, analysis methods, and conversion tables.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	wood; preservation; treated wood; construction; building;

#### AMERICAN WOOD PRESERVERS BUREAU

	Eric Yeadon, President
	P.O. Box 5283 Springfield, Virginia 22150 (703) 339-6660
	Founded: 1971
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1971 Developed 23 standards None processed through ANSI
<b>Standards Designation</b>	LP, General Purpose MP, Marine Piling CP, Construction Poles MLP, Marine Structures
<b>Government Adoption</b>	The AWPB Quality Mark is accepted by the Federal Housing Administration, Farmers Home Administration, Department of Veterans Affairs, U.S. Navy, and DoD. It is recognized by the building codes, ICBO, BOCA, and SBCC, as well as local and other organizations.
<b>Certification</b>	Certifies treated wood inspection agencies to license pressure treating plants to apply the AWPB Quality Mark to properly treated wood.

<b>Scope</b>	A not-for-profit volunteer quality control and certifying organization with 300 members. Provides a nationally known Quality Mark certifying a definite preservative treatment. Operates a wood preservative laboratory to standardize methods and assure quality control. A three man Board of Review of retired scholars handles disputes.
<b>Standardization Activities</b>	All AWPB pressure treated lumber and plywood procedures are based on the American Wood Preservers Association standards.
<b>Availability</b>	Sold directly
<b>Keywords</b>	wood; preservation; treated wood; marine; construction; building;

### ANIMAL HEALTH INTERNATIONAL

Harold A. Waters, President

7873 Heritage Drive  
Suite 575

Annandale, Virginia 22003-5348

(703) 256-1719

Telex: 499 4994 Ans. AHII

Founded: 1980

Standards Staff:

1 - Veterinarian

6 - Contract Consultants

<b>Type of Organization</b>	Professional Society Standards Developer
<b>Standards Development</b>	Standards developer since 1980
<b>Government Adoption</b>	Used worldwide by Office of International Epizootics (OIE) and International Air Transport Association (IATA)
<b>Certification</b>	Provides health certification for livestock and poultry moved internationally.
<b>Standardization Activities</b>	Develops standards in cooperation with the chief animal health officials of various countries in the areas of humane standards for animal transport on aircraft or ocean vessels.
<b>Availability</b>	Distributed through IATA and OIE
<b>Keywords</b>	health; transportation; agriculture; animals;

## ANTI-FRICTION BEARING MANUFACTURERS ASSOCIATION

Michael L. Payne, President

1101 Connecticut Avenue, NW  
Suite 700  
Washington, DC 20036  
(202) 429-5155

Founded: 1933

Standards Staff: 4

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

27 active standards

**Standards  
Designation**

ANSI/AFBMA prefix

**Certification**

No certification, qualification, or accreditation programs

**Secretariats**

Accredited Standards Committee B3 operating under ANSI procedures  
U.S. TAG for ISO/TC 4 and Subcommittees SC3, SC6, SC9, SC10, SC11

**Scope**

Membership comprised of manufacturers of ball bearings, roller bearings, balls, rollers, and spherical plain bearings.

**Standardization  
Activities**

Develops ANSI/AFBMA standards

**Availability**

Directly and through ANSI, NSA, IHS, and Global

**Keywords**

ball bearings; roller bearings; machinery;

## ARCHERY MANUFACTURERS ORGANIZATION

Anthony L. Kucera, Executive Director

200 Castlewood Drive  
North Palm Beach, Florida 33408  
(407) 842-4100

Founded: 1946

**Type of  
Organization**

Trade Association  
Standards Developer



<b>Standards</b>	14 standards currently published
<b>Development</b>	None processed through ANSI Available to non-members
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Scope</b>	A private, nonprofit, nongovernmental organization whose primary purpose is to improve and promote the sport of archery; improve and promote the business of archery manufacturers; further the business interests of and promote friendly relationships with its members; study ways and means of improving business methods; establish trade standards, and compile and distribute to its members statistics and information regarding the archery manufacturing industry; and to fund the operation of the American Archery Council.
<b>Standardization Activities</b>	Introduced voluntary industry-wide standards to reduce confusion, promote interchangeability of accessories, and give the dealer and archer confidence in the purchase of equipment. Member manufacturers using these standards identify their products with the AMO symbol.  The standards committee serves AMO in an advisory capacity and as an investigative unit. Standards have been developed for all aspects of archery and equipment including nomenclature, standard bow length and weight, strings, arrows, fetching sights, accessories, and accessory mounting holes.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Archery Manufacturers and Dealers Association (AMADA) Archery Manufacturers Association
<b>Keywords</b>	archery; bowhunting; recreation;

#### **ARCHITECTURAL PRECAST ASSOCIATION**

Robert W. Walton, Executive Director

825 East 64th Street  
Indianapolis, Indiana 46220  
(317) 251-1214

Founded: 1966

<b>Type of Organization</b>	Trade Association Standards Developer
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<b>Standards Designation</b>	CSI prefix
<b>Scope</b>	Manufacturers of precast concrete panels and their suppliers. Disseminates educational material, and promotes interest in the industry.
<b>Standardization Activities</b>	Encourages the adoption of the standards and specifications of the association. Prepared the guide specifying Precast Concrete Panels; CSI Specification Series 03410 in conjunction with the Construction Specifications Institute.
<b>Availability</b>	Distributed by the Construction Specifications Institute
<b>Keywords</b>	precast concrete; concrete; building;

#### ARCHITECTURAL WOODWORK INSTITUTE

H. Keith Judkins, Executive Vice President

2310 South Walter Reed Drive  
Arlington, Virginia 22206  
(703) 671-9100

Founded: 1954

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Scope</b>	To promote the use of architectural woodwork to the architectural and design industry; to develop industry standards; research new and better materials and methods; maintain and offer correspondence course training and methods; maintain and offer correspondence course training for estimators, detailers, and billers; and publish technical data helpful in the design and use of architectural woodwork.
<b>Standardization Activities</b>	Carries on a sustained program of standardization in the fields of cost accounting, estimating, detailing and billing, and the fabrication of architectural woodwork, sometimes known as special millwork, detail millwork, or contract millwork. This is done through the following publications: AWI Cost Accounting Manual (1987); Quality Standards for Architectural Woodwork (1988); Guide Specification for Architectural Woodwork (1988).
<b>Availability</b>	Sold directly
<b>Absorbed</b>	Millwork Cost Bureau

**Keywords** wood products; millwork; lumber; building;

**ART AND CRAFT MATERIALS INSTITUTE, INC.**

Deborah Fanning, Executive Vice President

715 Boylston Street  
Boston, Massachusetts 02116  
(617) 266-6800

Founded: 1936

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** 5 active standards

**Standards Designations** Z356.1-.5

**Certifications** The Certified Products Bureau of the Institute, initiated in 1940, insures the safety and quality of the products of subscribers to the bureau. Certified products are identified by a CP, AP, or HL Health Label Seal, all registered Trademarks. The CP Seal insures both nontoxicity and specific quality requirements; the AP Seal insures nontoxicity only; the HL Health Label insures that the product is properly labeled. Nonmember manufacturers may subscribed and authorized to use the Seals of the bureau if they meet the requirements. The products covered by the seals are crayons, chalk, finger paints, modeling clay, liquid and powdered tempera, semi-moist water colors, block printing ink, school paste and related school art products, as well as ceramic products and numerous adult art materials.

**Scope** An association of manufacturers of art and craft materials which conducts a wide range of activities.

**Standardization Activities** Maintains a Certification Committee which is responsible for the standardization activities.

Works with the American National Standards Institute to develop and update quality standards for products within the scope of the institute. Current standards are Z356.1 for Crayons; Z356.2 for Chalk; Z356.3 for Adhesives; Z356.4 for Modeling Materials; and Z356.5 for Paints and Inks.

**Availability** Distributed directly



**Formerly** Crayon, Water Color and Craft Institute  
**Keywords** crafts; water color; crayon; education; consumer products;

**ASBESTOS INFORMATION ASSOCIATION NORTH AMERICA**

B.J. Pigg, Assistant for Governmental Affairs  
1745 Jefferson Davis Highway  
Crystal Square 4  
Suite 509  
Arlington, Virginia 22202  
(703) 979-1150  
Founded: 1970

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** 3 active standards

**Standards Designation** Recommended Work Practices

**Certification** No certification, qualification, or accreditation programs

**Scope** Member companies are involved in the mining, milling, manufacturing, and marketing of asbestos and asbestos-containing products. Efforts are centered on health and safety aspects of asbestos and its use.

**Standardization Activities** Standards developed by committees with participants drawn from member companies.

**Availability** Sold directly

**Keywords** asbestos; safety; health; materials;

**ASPHALT EMULSION MANUFACTURERS ASSOCIATION**

Michael R. Krissoff, Executive Director  
3 Church Circle.  
Suite 250  
Annapolis, Maryland 21401  
(301) 267-0023  
Founded: 1973

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Developed a series of Recommended Performance Guidelines for the manufacture and use of emulsified asphalt.
<b>Standards Designations</b>	Recommended Performance Guidelines
<b>Scope</b>	An industry-wide trade association including over 120 corporate members in the United States, Canada, Mexico, and in many countries overseas. The technical work of the association is done in the committees and sub-committees of the association's international Technical Committee.
<b>Standardization Activities</b>	The International Technical Committee prepares guide specifications for the proper use of emulsions AEMA is involved with the American Society for Testing and Materials. Individual AEMA members hold committee chairmanships and subcommittee chairmanships within the ASTM structure, and particularly in ASTM Committee D-4. AEMA is also active in the American Association of State Highway Transportation Officials and is involved with the Materials and Services Division of the American Road Builders Association where it reviews state and road building specifications and participates in the Stabilization Committee.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	materials; asphalt; asphalt emulsion; slurry seal; seal coat; construction;

#### ASPHALT INSTITUTE

Gerald S. Triplett, President

Asphalt Institute Building  
Research Park Drive  
P.O. Box 14052  
Lexington, Kentucky 40512-4052  
(606) 288-4960

Founded: 1919

<b>Type of Organization</b>	Trade Association Develops Guidelines
<b>Standards Development</b>	25 active standards

<b>Representation</b>	Works closely with other organizations in the development of standards including the American Society for Testing and Materials, the American Association of State Highway and Transportation Officials. Staff members serve on technical committees of standards making organizations. Promulgates standards of other organizations.
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Scope</b>	An international business league (trade association) representing the manufacturers of asphalt or processors of asphalt materials. Publishes informational and technical literature. Maintains field offices in the continental United States. Conducts extensive programs of education, research, and engineering service related to asphalt products.
<b>Standardization</b>	Works closely with its member companies, and serves upon appropriate standards-making committees of the American Society for Testing and Materials, the American Association of State Highway and Transportation Officials, and others. Works in collaboration with kindred organizations such as the National Asphalt Pavement Association, the Asphalt Emulsion Manufacturers Association, the Asphalt Roofing Manufacturers Association, the Highway Users Federation for Safety and Mobility, and others. Prepares Asphalt Institute Guidelines many of which are subsequently processed as ASTM and AASHTO standards.
<b>Availability</b>	Distributed directly and through Global and IHS
<b>Formerly</b>	Asphalt Association (1929)
<b>Keywords</b>	asphalt; highways; pavements; construction; materials;

#### **ASPHALT ROOFING MANUFACTURERS ASSOCIATION**

Richard D. Snyder, Executive Vice President

6288 Montrose Road  
Rockville, Maryland 20852  
(301) 231-9050

Founded: 1919

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
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<b>Representation</b>	Technical Committees cooperate in the formulation and improvement of standards and specifications covering asphalt roofing products developed by the federal government, ASTM, Underwriters Labs, Factory Mutual, and others.
<b>Scope</b>	A national trade association representing U.S. companies that produce asphalt shingles, roll goods, and allied roofing products. Provides basic membership services including research in improving the durability of asphalts for roofing products.
<b>Standardization Activities</b>	Works with standards producing organizations to coordinate industry standards activities and to provide expertise when requested. A Code Task Force works cooperatively with the association's Residential Roofing Committee and Modified Bitumen Roofing Built-Up Roofing Committee to assure recommended application practices adhere to building code requirements.
<b>Formerly</b>	Asphalt Roofing Industry Bureau (1970)
<b>Keywords</b>	roofing; asphalt shingles; fiberglass shingles; construction; building;

#### **ASSOCIATED AIR BALANCE COUNCIL**

	Kenneth M. Sufka, Executive Director
	1518 K Street, NW Suite 503 Washington, DC 20005 (202) 737-0202
	Founded: 1965                      Standards Staff: 6
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards Developer since 1965 All members participate in standards activities
<b>Standards Designation</b>	AABC National Standards
<b>Government Adoption</b>	Army Corps of Engineers
<b>Certification</b>	Test and Balance Certification for membership; no certification to use standards.

<b>Scope</b>	A nonprofit organization of qualified independent test and balance agencies. Promotes professional standards for the industry and a scientific approach to testing and balancing air handling systems. Represents its membership at national and international levels.
<b>Standardization Activities</b>	Activities directed toward fulfilling the minimum requirements for total system balance. AABC National Standards (a performance standard for the Total System Balancing industry), revises and replaces all National Standards previously published by the Council.
<b>Availability</b>	Sold directly and through members
<b>Keywords</b>	hydronic systems; construction; building; air handling;

#### ASSOCIATED GENERAL CONTRACTORS OF AMERICA

Hubert Beatty, Executive Vice President

1957 E Street, NW  
Washington, DC 20006  
(202) 393-2040

FAX: (202) 347-4004

Founded: 1918

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Represented on committees of National Institute of Building Sciences and ANSI
<b>Scope</b>	A national trade association that represents general contractors and all related business interests engaged in commercial construction.
<b>Standardization Activities</b>	Engages in a wide variety of standards related activity covering fields, such as training and competency of on-site construction workers and supervisors, contract documents for use by contractors and owners for a wide range of contractual variations, safety and health procedures for construction sites, federal procurement regulations, and teaching construction skills at the secondary school and college levels. Cooperates with other groups, including ANSI, building trade unions, architects/engineers, and various federal agencies.
<b>Availability</b>	Distributed directly and through cooperating organizations
<b>Keywords</b>	construction; building;

## ASSOCIATED LOCKSMITHS OF AMERICA

William R. Mathiesen, Executive Director

3003 Live Oak Street  
Dallas, Texas 75204  
(214) 827-1701

Founded: 1955

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

3 active standards

**Scope**

Encourages and promotes the voluntary exchange among locksmiths of technical service data on security products; evaluates the position of the locksmith in the security industry; establishes a uniform code of ethics and conducts trade promotion activities.

**Standardization  
Activities**

Maintains a security Standards Committee which administers the standardization activity and is now working on standards for security devices in relation to locks. Works closely with the American Society for Testing and Materials' program for voluntary standards in locking devices, Committee T-12 on Security Systems and Equipment. Was successful in getting industry rapport to standardize and improve the quality of packaging for key blanks. Recommended a Standard City Ordinance on Building Security. Currently is working on a recommended standard for state licensing or registration of locksmiths. The Key Blank Boxes, Building Security, and Locksmith License are the three current standards of ALA, all considered national in scope.

**Availability**

Distributed directly

**Keywords**

locksmithing; keys; locks; building; public safety;

## ASSOCIATION FOR COMPUTING MACHINERY

Sidney Weinstein, Executive Director

11 West 42nd Street  
New York, New York 10036  
(212) 869-7440

Founded: 1947



<b>Type of Organization</b>	Scientific Society Standards Developer
<b>Standards Designation</b>	ACM prefix
<b>Scope</b>	An international educational and scientific society of 65,000 computer professionals advances the science and art of information processing; promotes free interchange of information between computer scientists and the general public; develops and maintains the integrity and competence of individuals engaged in the information processing profession.
<b>Standardization Activities</b>	Represented on several technical committees of X3-Information Systems. Particularly active in the standardization of programming languages. Member of the ANSI Information Systems Standards Board. Developed SIGGRAPH CORE standard on 3-dimensional computer graphics. A program for processing standards through ANSI is under consideration.
<b>Availability</b>	Distributed through ACM Order Department, P.O. Box 64145, Baltimore, Maryland 21264
<b>Keywords</b>	computers; programming languages; computer graphics; information;

**ASSOCIATION FOR EDUCATION AND REHABILITATION OF THE BLIND AND VISUALLY IMPAIRED**

Kathleen Megivern, Executive Director

206 N. Washington Street  
Alexandria, Virginia 22314  
(703) 836-6060

Founded: 1853

<b>Type of Organization</b>	Professional Society Standards Developer
<b>Certification</b>	Maintains a certification service for blindness professionals.
<b>Scope</b>	A professional organization of 5,000 members which serves educators and rehabilitation specialists of the visually handicapped in the United States and Canada.
<b>Standardization Activities</b>	Participates in training institutes, the development of special standards. Cooperate with national and

international agencies interested in the education and rehabilitation of visually handicapped children and youth.

**Formerly** Merger of American Association of Workers for the Blind and Association for Education of the Visually Handicapped (1984)

**Keywords** visually handicapped; blindness; education; rehabilitation;

#### ASSOCIATION FOR INFORMATION AND IMAGE MANAGEMENT

Marilyn Courtot, Director, Standards and Technology

1100 Wayne Avenue, Suite 1100  
Silver Spring, Maryland 20910  
(301) 587-8202

Founded: 1943

Standards Staff: 6

**Type of Organization** Professional and Trade Association  
Standards Developer

**Standards Development** Develops standards, recommended practices, and technical reports  
200 individuals participating in standards activities  
35 active standards and recommended practices  
15 technical reports  
13 technical tools

**Standards Designations** Published documents are designated ANSI/AIIM MS. Technical Reports are designated as AIIM TR. (Prior to July 1, 1983, the Association was known as the National Micrographics Association and used the acronym NMA. Documents published and printed prior to that used the NMA acronym where the AIIM acronym is now used.

**Government Adoption** Documents are submitted for adoption to the Department of Defense (DoD) or as part of the Federal Information Processing Standards Series (FIPS).

**Certification** No certification, qualification, or accreditation programs

**Secretariats** U.S. TAG to ISO/TC 171, Micrographics and Optical Memories for Document and Image Recording, Storage and Use.

**Scope** Serves its professional and trade members in promoting education and applications for information and imaging

technologies which facilitate the effective storage, transfer, retrieval, and processing of images and information.

**Standardization  
Activities**

Standards committees and ad hoc groups collect data, evaluate proposed procedures, tests, drafts, and publish documents to meet the technical needs of the information and image management industry. These documents are published as standards, recommended practices, and technical reports. Areas covered include the recording, storage, retrieval, and distribution of images containing both alphanumeric and graphics data; formats; quality requirements; dimensions; product standardization; test methods; definitions for terms and phrases; and uniform product descriptions.

**Availability**

Distributed directly, thorough ANSI, and IHS

**Formerly**

National Microfilm Association (1943)  
National Micrographics Association (1975)

**Keywords**

microfilm; micrographics; photography; information processing; scanning; image processing; image management;

**ASSOCIATION FOR MANUFACTURING TECHNOLOGY**

See NMBTA

**ASSOCIATION FOR THE ADVANCEMENT OF MEDICAL INSTRUMENTATION**

Theresa C. Zuraski, Technical Committee Manager

3330 Washington Boulevard  
Suite 400  
Arlington, Virginia 22201  
(703) 525-4890

Founded: 1967

Standards Staff: 4

**Type of  
Organization**

Technical Association  
Standards Developer

**Standards  
Development**

Standards Developer since 1967  
2,000 members and nonmembers participating in standards activities  
29 American National Standards, 3 AAMI standard, 8 AAMI recommended practices, and 5 AAMI technical information reports  
Draft standards available for review



<b>Standards Designations</b>	American National Standards, AAMI Final Standards, AAMI Recommended Practices, and AAMI Technical Information Reports
<b>Government Adoption</b>	The Department of Defense has adopted 2 AAMI standards. The Food and Drug Administration utilizes AAMI standards for various regulatory purposes.
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Secretariats</b>	ISO/TC 150/SC2 Cardiovascular Implants ISO/TC XXX Sterilization of Healthcare Products (expected to be formed mid 1990) ISO/TC 194/WG1 Systematic Approach to Biological Evaluation and Terminology ISO/TC 194/WG9 Effects on Blood (Hemocompatibility)
<b>Scope</b>	An international technical association whose members include over 3,000 individual health care practitioners; nearly 400 hospitals, universities, government agencies, laboratories and medical societies; and nearly 150 medical device companies. Mission is to help developers and users with the development and utilization of medical technology. Accomplished through publications, standards, educational conferences, certification of health care professionals, and numerous technical communication programs.
<b>Standardization Activities</b>	Assists the manufacturers of medical devices and the users of medical technology by developing and approving device product standards and guidelines for the safe use and safe environment relative to medical technology. Participates with government, industry, consumers, and the professional community to develop standards. Accredited by the American National Standards Institute. Involved with international standards activities of IEC, ISO, and other international standards organizations in the areas of electromedical equipment, cardiovascular implants, biocompatibility testing, and sterilization technology.  Develops standards and recommended practices primarily in the areas of cardiovascular, gastroenterological, general surgical, neurosurgical, and hospital and industrial sterilization technology.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	medical devices; medical instrumentation; sterilization; safety; health care;

## ASSOCIATION OF AMERICAN FEED CONTROL OFFICIALS

Barbara J. Sims, Secretary

Texas Feed and Fertilizer Control Service  
P.O. Box 3160  
College Station, Texas 77841  
(409) 845-1121

Founded: 1909

**Type of  
Organization**

Professional Society  
Standards Developer

**Standards  
Development**

14 committees and 35 product investigators active in  
standard development  
None processed through ANSI  
Draft standards and revisions available for review for  
non-members

**Scope**

A nonprofit association of feed control officials whose  
membership includes persons charged by law with  
execution of state, provincial, dominion, and federal  
laws in North America, Hawaii, and Puerto Rico  
regulating the production, labelling, distribution, and  
sale of animal feeds and livestock remedies.

**Standardization  
Activities**

Directed toward development of uniform feed laws and  
regulation for implementation by various agencies and  
development of definitions for feed terms and feed  
ingredients for use by control officials and the feed  
industry.

**Availability**

Distributed through Charles P. Frank, Georgia  
Department of Agriculture, Plant Food, Feed & Grain  
Division, Capitol Square, Atlanta, Georgia 30334  
(404) 656-3637

**Keywords**

animal feed; livestock remedies; agriculture;  
government officials;

## ASSOCIATION OF AMERICAN PLANT FOOD CONTROL OFFICIALS

D. L. Terry, Secretary

c/o University of Kentucky  
Lexington, Kentucky 40546  
(606) 257-2668

Founded: 1946

**Type of  
Organization**

Professional Society  
Standards Developer

<b>Standards Development</b>	Standards developer since 1946 Model legislation and standards available for review
<b>Government Adoption</b>	Several states have adopted one or more of the standards and most states accept the principles of uniformity promoted by AAPFCO.
<b>Scope</b>	Officials of agencies concerned with enforcement of laws relating to control of sale and distribution of mixed fertilizer and fertilizer materials. Members in the United States, Canada, and Puerto Rico.
<b>Standardization Activities</b>	Develops model laws and standards for fertilizer labeling, terms and definitions, enforcement policies, and tonnage reporting. These are developed through various committees which solicit input from regulatory officials, professional agronomists, the fertilizer industry, and federal agencies. Model laws for fertilizer, liming, agricultural ammonia, chemigation, and soil amendments are the basis for legislation in a number of states.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Association of American Fertilizer Control Officials
<b>Keywords</b>	fertilizers; limestone; agriculture; government officials;

#### ASSOCIATION OF AMERICAN PUBLISHERS

Nicholas A. Veliotes, President

220 East 23rd Street  
New York, New York 10010  
(212) 689-8920

Founded: 1970

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Scope</b>	Its members are producers of hardbound and softbound general, educational, trade, reference, religious, scientific, technical, and medical books; instructional materials; periodicals and tests.
<b>Standardization Activities</b>	Works with the Book Manufacturers Institute (BMI) and the National Association of State Textbook Administrators (NASTA) to comprise a three member



Advisory Commission on Textbook Specifications (ACTS) which develops the Manufacturing Standards and Specifications for Textbooks (elementary and high school).

**Availability** Distributed through ACTS

**Formerly** Merger of American Educational Publishers Institute and American Book Publishers Council

**Keywords** books; book publishing; publishing; communications;

#### **ASSOCIATION OF AMERICAN RAILROADS**

Daniel L. Lang, Vice President  
Information and Public Affairs

50 F Street, NW  
Washington, DC 20001  
(202) 639-2100 FAX: (202) 639-5546

Founded: 1934

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** The Manual of Standards and Recommended Practices (19 volumes) contains nearly 1,400 documents.

**Standards Designations** Specifications are designated with an "M" prefix, Standards with an "S" prefix, Recommended Practices with an "RP" prefix.

**Certification** The Research and Test Department is responsible for conducting certification testing of new designs of cars and components, quality control checks on components and materials, lubricant testing, and analysis of failed components.

**Scope** Membership consists of 108 railroads, including 9 Canadian, 4 Mexican, and 59 associate members. Association members haul approximately 90 percent of the nation's rail traffic and account for 82 percent of the rail mileage. the association serves its members in matters that require cooperative handling to better enable the railroads to operate as a national system and to contribute toward the purposes of the national transportation policy set forth by Congress. It is an umbrella organization consolidating a number of smaller, more specialized groups and is organized by departments which span the fields of law, operations

and maintenance, research and testing, railway economics and statistics, finance and accounting, railway information and public affairs, legislation, and data systems.

#### **Standardization Activities**

AAR specifications, standards and recommended practices are issued by the Mechanical Division on authority of the Division's General Committee. The Division and its standards deal with the design, construction, performance, maintenance, repair, and inspection of locomotives, freight cars, and other railroad mechanical equipment that is interchanged among railroads.

The Communications and Signal Division develops recommended practices for engineering, design, construction, operation, and maintenance of rail communication and signal systems. It maintains liaison with appropriate professional organizations such as the American National Standards Institute and the Institute of Electrical and Electronics Engineers, and with government agencies. It is the national radio frequency coordinator to the Federal Communications Commission for assignment of radio frequencies for the railroads in the United States, and the United States/Canadian coordinator along the border.

The Data Systems Division, through RAILINC Corporation, a subsidiary of AAR, stimulates the development and application of data processing and information techniques and established procedures which promote their efficient and productive use and simplify the interchange of data. This division serves as the principal railroad representative to American National Standards Committee X3 and the Transportation Data Coordinating Committee. Its committees are examining the industry's coding and standards needs in the area of data elements, teleprocessing protocols, etc.

Other AAR activities involved in standardization include the Safety Division's Hazardous Material Systems Division, which tests and classifies, for transportation purposes, materials considered hazardous under government regulation and makes recommendations covering packaging, labeling, and handling en route. The Division maintains field inspectors at key locations throughout the United States and Canada.

Standardization and simplification of railroad accounting and treasury practices and requirements is accomplished through the Economics and Finance

Department. This department prepares various publications on rules, standard forms, procedures, and codes, as well as economic and statistical data covering railroad operations and their financing.

**Availability**

The Manual of Standards and Recommended Practices is sold directly.

**Keywords**

transportation; railroads; accounting; finance; explosives; safety; communications; data processing;

**ASSOCIATION OF ASBESTOS CEMENT PIPE PRODUCERS**

B.J. Pigg, President

1745 Jefferson Davis Highway  
Suite 509  
Arlington, Virginia 22202  
(703) 979-1026 (703) 979-1152

Founded: 1972

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

2 member companies represented on standard committees  
of ASTM and AWWA  
16 member companies active in ISO/TC 77

**Scope**

An international association of producers of asbestos cement pip worldwide. Promotes the use and sale of asbestos cement water and sewer pipe.

**Standardization  
Activities**

Standards activities are directed toward the development and maintenance of contemporary product, test, and performance standards for asbestos cement water and sewer pipe, including special applications.

**Keywords**

construction; asbestos cement; asbestos cement pipe; sewer pipe;

**ASSOCIATION OF BEDDING AND FURNITURE LAW OFFICIALS**

Mackie Lawrence, Director  
Product Safety Division

Texas Department of Health  
1100 West 49th Street  
Austin, Texas 78756  
(512) 458-7519



<b>Type of Organization</b>	Professional Society Standards Developer
<b>Scope</b>	Provides a national forum for the discussion of all questions relating to the administration of bedding and upholstered furniture laws as carried on by regulatory officials of the state, commonwealths, territories and possessions of the United States, their political subdivisions, the District of Columbia, and the Dominion of Canada.
<b>Standardization Activities</b>	Encourages and promotes the adoption of uniform bedding and upholstered furniture laws, rules, regulations, nomenclature, labeling requirements, and enforcement procedures. Develops tests and adopts standard methods of inspection and sampling of bedding and upholstered furniture and the analyses of filling materials. Develops standard methods of determining the efficiency of insecticides, fumigants, sterilizing and disinfecting processes and equipment as applied to bedding, upholstered furniture, and filling materials. Secures uniformity in the statement of analytical results; promotes, conducts, and encourages research in chemistry and allied fields as these relate to analyses of filling materials used in bedding and upholstered furniture.
<b>Availability</b>	Sold directly
<b>Keywords</b>	bedding; upholstered furniture; insecticides; fumigants; sterilization; government officials; consumer products;

#### ASSOCIATION OF DRILLED SHAFT CONTRACTORS

Scot Litke, Executive Director

P.O. Box 280379  
Dallas, Texas 75228  
(214) 681-5994

FAX: (214) 613-7001

Founded: 1972

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Scope</b>	Represents 194 foundation drilling contractors, 155 associates (suppliers), and 291 technical affiliates (professional civil engineers), most of which are in the United States, some in Canada, Mexico, South America, Europe, Asia, Australia, and New Zealand. An eighteen member Board of Directors supervises the activities of the Association. Conducts drilled

foundation design and construction seminars worldwide. Funds research at universities; provides scholarships; publishes technical materials and maintains a library.

**Standardization  
Activities**

Cooperates with the American Concrete Institute in updating and developing with official Standards and Specifications for the Drilled Shaft industry. Works with states in aligning their specifications with that of the ADSC. Working to revise the American Institute of Architects Master Specs. Monitors all phases of the specifications for the industry. Works with governmental agencies at all levels, university civil engineering departments, and individual engineering firms.

**Availability**

Distributed directly

**Keywords**

drilled shafts; caissons; foundation drilling; construction;

**ASSOCIATION OF EDISON ILLUMINATING COMPANIES**

W.O. Whitt, Executive Director

600 North 18th Street  
P.O. Box 2641  
Birmingham, Alabama 35291-0992  
(205) 250-2530

Founded: 1885

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Designation**

AEIC CS prefix

**Scope**

A trade association of investor-owned electric utilities in the United States engaged in the distribution of electric service for sale to the general public. Its objective is the advancement of electric service to the public for light, heat, and power.

**Standardization  
Activities**

Maintains representation on several ANSI Committees and on other similar technical organizations involved in standardization relating to the electric utility industry. Prepares and publishes specifications for high voltage underground cable design used in the industry.

**Availability**

Sold directly

**Keywords** energy; electric power; electrical equipment;

**ASSOCIATION OF ENGINEERING GEOLOGISTS**

Edwin A. Blackey, Jr., Executive Director

323 Boston Post Road  
Suite 3D  
Sudbury, Massachusetts 01776

Founded: 1957

**Type of Organization** Professional Society  
Standards Developer

**Scope** Promotes high ethical and professional standards in the field of geology; members are graduate geologists and geological engineers.

**Standardization** Maintains two committees active in standards development. The Building Codes Committee is active on a local level as advisors to county and municipal governments considering code revisions, including code provisions for development of floodplains and tidal marshlands. The Committee on Engineering Geology Mapping Symbols develops standard map symbols for use by all states and counties.

**Availability** Distributed directly

**Keywords** geology; mapping; construction;

**ASSOCIATION OF HOME APPLIANCE MANUFACTURERS**

Jack Weizeorick, Product Management

20 North Wacker Drive  
Chicago, Illinois 60606  
(312) 984-5800

Founded: 1967

Standards Staff: 4

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1967  
73 members participate in standards activities  
26 active standards include metric equivalents  
20 standards ANSI approved

**Standards Designations** ANSI/AHAM and AHAM prefixes



<b>Government Adoption</b>	The General Services Administration has adopted several AHAM standards for procurement purposes.
<b>Certification</b>	Sponsors five certification programs for Room Air Conditioners, Refrigerator-Freezers, Humidifiers, Dehumidifiers, and Room Air Cleaners
<b>Secretariats</b>	IEC SC59A, Electric Dishwashers IEC SC59H, Microwave Appliances IEC SC61B, Safety of Household Microwave Ovens
<b>Scope</b>	An international nonprofit association of companies manufacturing major and portable appliances. Functions in five major areas: product standards and certification, government relations, consumer affairs and communications, statistical reports, and international trade. Other functions included industrial relations and market research.
<b>Standardization Activities</b>	<p>Develops voluntary appliance performance standards and makes safety recommendations to Underwriters Laboratories and the American Gas Association. The Engineering Council determines policy and directs product engineering committees to determine contents of standards with special consideration on product safety.</p> <p>Develops international standards through representation on technical committees of the International Electrotechnical Commission.</p> <p>Maintains liaison with the National Institute of Standards and Technology, General Services Administration, Food and Drug Administration, Federal Trade Commission, Consumer Product Safety Commission, and Department of Energy.</p> <p>AHAM standards are national in scope. Their use is promoted through publications and press releases, through certification, and by the American National Standards Institute's recognition.</p>
<b>Availability</b>	Sold directly and through ANSI
<b>Formerly</b>	American Home Laundry Manufacturer's Association (1916-1966)
<b>Keywords</b>	home appliances; safety; consumer products;

## ASSOCIATION OF IRON AND STEEL ENGINEERS

Herschel B. Poole, Managing Director

Three Gateway Center  
Suite 2350  
Pittsburgh, Pennsylvania 15222  
(412) 281-6323

Founded: 1907

**Type of  
Organization**

Technical Society  
Standards Developer

**Standards  
Development**

11 standards and technical reports

**Scope**

Fosters an exchange of ideas toward advancing the iron and steel producing industry in matters related to steel plant engineering, maintenance, and operations including electrical, mechanical, welding, combustion, lubrication, and rolling mills. Engages in standardization, research, and computer applications.

**Standardization  
Activities**

Developed standards for the steel industry which include D-C Mill Motor Standards, A-C Mill Motor Standards, Standard for Machined Surface Finishes, Alloy Steel Chain and Alloy Steel Chain Slings for Overhead Lifting, Pacification for Electric Overhead Traveling Cranes for Steel Mill Service, Specification for Design of Ladle Hooks, Crane and Mill Auxiliary Drive Motor Cable Size Wiring Standard, Standard for Design of Hot Metal Ladles, Brake Standards for Mill Motors, Specifications for Design and Construction of Mill Buildings New Steel Pressure-Containing Components for Blast Furnace Installers.

Also sponsors research activities for the purpose of developing data for future standards and for the improvement of steel mill operating practice.

**Availability**

Distributed directly

**Formerly**

Association of Iron and Steel Electrical Engineers  
(1936)

**Keywords**

electrical equipment; industrial equipment;

## ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS

Ronald R. Christensen, Executive Director

2200 Wilson Boulevard  
Suite 400  
Arlington, Virginia 22201-3301  
(703) 522-3032

Founded: 1884

**Type of  
Organization**

Scientific Society  
Standards Developer

**Standards  
Development**

More than 1,900 standard test methods for food, feed, fertilizer, pesticides, pharmaceuticals, residues, microbiologicals, hazardous substances, water, and other commodities.

**Government  
Adoption**

FDA, state departments of agriculture, Agriculture Department of Canada. Used in official regulatory laboratories in many countries.

**Certification**

No certification or accreditation programs

**Secretariats**

Category "A" liaison to ISO/TC 34 Agricultural Food Products, ISO/TC 69 Applications of Statistical Methods, ISO/TC 93 starch and ISO/TC 134 Fertilizer.

**Scope**

Coordinates the work of some 800 volunteer scientists in government and private laboratories worldwide to develop, test, validate, approve and publish official methods of analysis for food, agricultural commodities, chemicals, and pharmaceuticals. Publishes Official Methods of Analysis, Journal of the AOAC, and collaborative study data. Conducts and Annual International Meeting and Regional Meetings.

**Standardization  
Activities**

Develops analytic methods used by industry and government laboratories in some 50 countries for determining compliance with government regulations, research, and quality control. Scientists participate in the AOAC methods validation process to establish official methods.

**Availability**

Distributed directly

**Keywords**

laboratory analysis; quality control; food; agriculture; pesticides; fertilizer; feed; pharmaceuticals; analytical chemistry; government officials; microbiologicals; residues; water;



## ASSOCIATION OF OFFICIAL SEED ANALYSTS

Jim Lair, Secretary-Treasurer

Illinois Department of Agriculture - Seed Lab  
801 Sangamon Avenue  
Springfield, Illinois 62708-9281

Founded: 1908

**Type of  
Organization**

Scientific Society  
Standards Developer

**Scope**

Officials of federal, state and provincial seed testing and research laboratories. Develops uniform rules for testing field, vegetable flower and tree seeds, encourages the use of high quality seed, promotes research, and fosters the training of seed analysts.

**Standardization  
Activities**

Maintains committees in research, rules, referee, and public service areas to develop standardized methods of seed testing that will permit duplication of results when the same sample is tested by different stations. Quality factors for which tests are made include purity of sample, percentage germination, rate of occurrence of noxious weed seeds, varietal purity, and assaying for fungicidal seed treatment. The Research Committee makes technical information available to the Rules Committee which prepares a new draft revision of the rules every fifth year for approval. The Rules Committee also interprets questionable and disputed points of the Rules for Testing Seeds. The Referee Committee circulates samples among the member stations to determine whether they are testing in accordance with the rules and to identify any weaknesses in the rules. The Public Service Committee encourages association member to publicize the benefits of the associations's work and stimulate interest in seed testing.

**Keywords**

seed testing; government officials; agriculture;

## ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES

Foil W. McLaughlin, Executive Vice President

3709 Hillsborough Street  
Raleigh, North Carolina 27607  
(919) 737-2851

Founded: 1919

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Certification</b>	The adopted standards are used to establish seed certification regulations by the U.S. Department of Agriculture.
<b>Scope</b>	Establishes and maintains minimum standards and procedures for certifying seed. Membership consists of a representative from each state certifying seed.
<b>Standardization</b>	The Association develops and maintains seed certification minimum standards for genetic purity and identity. These standards and procedures are used by individual state seed certifying agencies in supervising the production and marketing of certified seed and are reviewed annually. Individual state seed certifying agencies may not certify seed for interstate commerce unless the Association's (and USDA) minimum standards are used.
<b>Availability</b>	The Association standards are printed in a certification book and may be purchased directly.
<b>Formerly</b>	International Crop Improvement Association (until 1968)
<b>Keywords</b>	seeds; genetics; agriculture;

**ASSOCIATION OF PHYSICAL PLANT ADMINISTRATORS OF UNIVERSITIES AND COLLEGES**

Walter A Schaw, CAE, Executive Director

1446 Duke Street  
Alexandria, Virginia 22314  
(703) 684-1446

Founded: 1914

<b>Type of Organization</b>	Professional Society Works through other organizations to develop standards
<b>Scope</b>	Develops professional standards in the administration, care, operation, planning, and development of college and university physical plants.
<b>Standardization Activities</b>	Participates with other organizations in the standards development and review process.
<b>Keywords</b>	physical plant; facilities management; construction; maintenance; education;

## ASSOCIATION OF RECORDS MANAGERS AND ADMINISTRATORS

James P. Souders, Executive Director

4200 Somerset Drive  
Suite 215  
Prairie Village, Kansas 66208  
(913) 341-3808

Founded: 1956

### **Type of Organization**

Professional Society  
Standards Developer

### **Standards Development**

Guidelines and standards developer since 1981  
100 members participate in standards activities  
None processed through ANSI  
Guidelines available for review  
9 guidelines published

### **Standards Designations**

ARMA prefix

### **Scope**

An international organization of professionals involved in records and information management. Represents interests in the management of documentation, preservation, disposal, and the efficient handling of recorded information including records management systems, records retention vital records, records centers, computerized information, micrographics technology, word processing, and others.

### **Standardization Activities**

Directs activities toward fulfilling user-defined requirements of the profession. A five-person Standards Committee represents government, manufacturers, and users, and is responsible for final approval of Guidelines and Standards developed by working committees. These committees cover the following areas: Filing Equipment and Supplies, Filing Systems, Glossary-Records Management Terms, Job Descriptions, Records Center Operations, Records Retention, Technology Applications and Vital Records.

ARMA Guidelines are published and made available to the membership and the general public. After one year, the Guideline may be revised and republished as a Guideline or upgraded to a Standard.

### **Availability**

Distributed directly

### **Formerly**

American Records Management Association

### **Keywords**

records; files; information processing; office products; records management;



## ASSOCIATION OF WALL AND CEILING INDUSTRIES - INTERNATIONAL

Eugene Z. Fisher, Technical Director

1600 Cameroon Street  
Alexandria, Virginia 22314  
(703) 684-2924

Founded: 1918

Standards Staff: 1

**Type of  
Organization**

Trade Association  
Standards Developer - Proprietary and working through  
technical societies

**Standards  
Development**

Standards developer since 1918  
1,400 plus members participate in standards activities

**Standards  
Designations**

ASCI guide specifications; also ACI, Gypsum  
Association, ML/SFA joint Standards, as well as ASTM  
and ANSI Standards.

**Certification**

Certification issued for Asbestos Abatement Training  
Program.

**Scope**

1,400 firms engaged in the application of acoustical  
tile, drywall, partitions lathing and plastering,  
fireproofing, and insulation.

**Standardization  
Activities**

Concentrates on application/installation standards  
development but also monitors and participates in  
materials and test methods specifications development.

Technical Subcommittees address standardization of  
materials, systems and application/installation  
procedures for asbestos abatement, acoustic systems,  
carpentry, coatings, demountable partitions, exterior  
insulation and finish systems (EIFS), fireproofing,  
flooring systems, lathing, furring, plastering,  
texturing, insulation, light gage steel framing systems  
(load and non-load bearing, integrated ceilings  
systems, open plan systems, door-frame-hardware, and  
allied fields. Final approval by the Association's  
Board of Directors when recommended by Technical  
Committee.

Through the Technical Department, AWCI participates in  
the activities of ASTM Committees C11, C16, C24, E6;  
and the following NIBS committees: Building Thermal  
Envelope Coordinating Committee, Building  
rehabilitation and Preservation.

**Availability**

Sold directly

<b>Formerly</b>	Contracting Plasters International Association (1956) Contracting Plasterers and Lathers International Association (1970) International Association of Wall and Ceiling Contractors (1976) Merger of International Association of Wall and Ceiling Contractors (1976) and Gypsum Drywall Contractors International (1979)
<b>Keywords</b>	walls; ceiling; drywall; plaster; acoustic; asbestos; building;

#### **AUTOMATED IMAGING ASSOCIATION**

	James A. Peyton, Manager of Standards Development  900 Victors Way P.O. Box 3724 Ann Arbor, Michigan 48106 (313) 994-6088 FAX: (313) 992-3338  Founded: 1984 Standards Staff: 2
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1986 100 representatives participate in the five A15 Standards Subcommittees. Most standards processed through ANSI. Draft standards available for review.
<b>Standards Designation</b>	AIA/A15.0x
<b>Secretariats</b>	A15.01, A15.05, A15.07, A15.08, A15.09
<b>Scope</b>	Dedicated to promoting the acceptance and productive use of image processing, image analysis and machine vision technologies. The use of these technologies will include both scientific and industrial applications from all aspects of product manufacturing, physical sciences, governmental and research communities. The association's membership includes manufacturers of both related and peripheral products, integrators, end users, consultants and research groups directly involved with these technologies.
<b>Standardization Activities</b>	Standardization in the area of image processing technology including System Communication (A15.01), Performance (A15.05), Terminology (A15.07), Sensor Interfaces (A15.08), Marking and Labeling (A15.09).





## AUTOMATIC METER READING ASSOCIATION

Donald E. Schlenger, Executive Director

P.O. Box 500  
Westwood, New Jersey 07675  
(201) 666-0902

Founded: 1986

**Type of  
Organization**

Trade Association  
Standards Developer

**Representation**

ANSI accreditation in process

**Scope**

A nonprofit nongovernmental educational association whose purpose is to advance the state of telemetry technology for meter reading, energy management, distribution and control. The AMRA exists to further the universal deployment of telemetry services and establish a forum for the research and development of standards, guidelines and practices. Functions in the areas of automatic meter reading and energy management through telemetry technologies (telephone, radio, powerline carrier, cable, etc.) primarily for electric, gas and water utilities.

**Standardization  
Activities**

The AMRA Standards Committee develops guidelines and voluntary standards designed to (1) foster the interchangeability of and encourage multiple sources for system components; (2) promote compatibility of existing and future products; (3) facilitate component and system enhancements, including new features, options and additional applications; (4) simplify and lower the cost of system implementations, including specification and selection process; and (5) minimize risk to manufacturers and users.

These guidelines and voluntary standards will cover system component inputs and outputs (including data protocols, hardware interfaces, power requirements, and component protection), environmental conditions, installations, and such other areas as the needs of the Association members may dictate.

The Standards Committee will work to (1) promote the continued development, testing, and integration of new automatic meter reading and telemetry services, equipment and procedures; (2) work with the relevant standards setting bodies of associated industries to promote the consistency of related standards and

guidelines; and (3) provide a forum for Association members and other interested parties to develop solutions and approaches to standardization and compatibility issues.

**Keywords**

telemetry; communications; data and information processing; distribution load control; utilities; electrical and electronic equipment;

**AUTOMOTIVE REFRIGERATION PRODUCTS INSTITUTE**

Timothy B. Tierney, Executive Director

5100 Forbes Boulevard  
Lanham, Maryland 20706  
(301) 731-5195

Founded: 1983

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Founded September, 1983 to develop Performance standards for the Automotive Refrigeration Industry.

**Scope**

Members are manufacturers and suppliers of automotive refrigerant, also container manufacturers, packagers and distributors, and those manufacturers of parts and tools necessary to assemble and test automotive refrigeration products.

**Keywords**

automotive refrigeration; air-conditioning;

## BAKING INDUSTRY SANITATION STANDARDS COMMITTEE

Bonnie Sweetman, Secretary-Treasurer

111 East Wacker Drive  
Suite 600  
Chicago, Illinois 60601  
(312) 644-6610

Founded: 1949

**Type of  
Organization**

Technical Society  
Standards Developer

**Standards  
Development**

42 active standards

**Certification**

Upon application, equipment is certified in accordance with the procedure set forth by the Certification Board. Standards are used by manufacturers and enforcement agencies.

**Scope**

A nonprofit organization dedicated to achieving sanitation in the baking industry. It is supported by trade associations representing manufacturers of baking machinery for wholesale and retail uses, and interested professional sanitarian and engineering organizations. Writing and publication of standards and certification of equipment promoting the sanitary design, construction, and installation of food-processing equipment are the only purposes and functions of this committee.

**Standardization  
Activities**

Develops sanitation standards for baking equipment and is the recognized sanitation standards organization for the baking industry. Government and industry representatives work together in preparing and editing these standards. Task committees are appointed for each specific standard or revision. Final task committee proposals are acted on by the general committee and the BISSC Board of Directors. BISSC standards are published every four years in book form. Latest edition: 1990.

**Availability**

Distributed directly

**Keywords**

baking equipment; machinery; sanitation;



## BATTERY COUNCIL INTERNATIONAL

Edward M. Craft, Executive Secretary

111 East Wacker Drive  
Chicago, Illinois 60601  
(312) 644-6610

Founded: 1924

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Work with SAE, and International Electrotechnical Commission
<b>Scope</b>	Manufacturers, suppliers of materials, and national distributors of lead-acid storage batteries.
<b>Standardization Activities</b>	Through committees, battery standards and specifications are recommended for use by the industry. The Environmental, Industrial Health, and Technical Committees work with government organizations to help set standards and regulations. Publishes a Battery Replacement Data Book. Revised yearly, this book outlines the types of battery sizes and specifications used in automobiles, both foreign and domestic.
<b>Formerly</b>	The National Battery Manufacturers Association (1940) The Association of American Battery Manufacturers (1970)
<b>Keywords</b>	lead-acid; battery; electrical equipment;

## BILLIARD CONGRESS OF AMERICA

Mark C. Cord, Managing Director

1901 Broadway Street  
Suite 310  
Iowa City, Iowa 52240  
(319) 351-2112

Founded: 1948

<b>Type of Organization</b>	Standards Developer
<b>Scope</b>	Organization of players, retailers, proprietors, manufacturers, distributors, and importers of billiards. Serves as a national clearinghouse for billiard activities; makes rules and interpretations.

<b>Standardization Activities</b>	Prepares standards for equipment and rules for billiard and pool games, as well as tournament play. Maintains a Specifications Committee and Rules Committee to coordinate these activities. Publishes the Official Rule Book for all Pocket and Carom Billiard Games.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	National Billiard Council (1963)
<b>Keywords</b>	billiards; recreation;

#### **BIOLOGICAL STAIN COMMISSION**

Eric A. Schenk, M.D., Secretary

Department of Pathology, Box 626  
The University of Rochester Medical Center  
Rochester, New York 14642  
(716) 275-3197

Founded: 1922

<b>Type of Organization</b>	Scientific Society Standards Developer
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<b>Standards Development</b>	62 standards
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<b>Certification</b>	The commission maintains a program of stain certification. Manufacturers and distributors voluntarily submit samples for examination. If the sample meets the commission's specifications, it is approved for marketing as a Certified Biological Stain, and the commission issues certification labels to be affixed to bottles in which it is sold. Certification is on a batch basis, the labels issued by the commission bearing distinctive certification numbers identifying the specific batches with which they are to be used. A sample of each batch is kept on permanent file, and the commission investigates complaints of any unsatisfactory results obtained with a certified stain.
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<b>Scope</b>	A nonprofit organization of professional scientists in biology, medicine, and related fields devoted to the establishment of standards for biological stains.
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<b>Standardization Activities</b>	Establishes standard specifications for the identification, purity, performance and labeling of the more important biological stains, in order that they may be relied upon as standard tools in biological and medical research. National in scope, the commission has the cooperation of scientific societies whose
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interests lie in this field, as well as the interest and cooperation of manufacturers and distributors of biological stains.

**Availability** The Commission's standards are included in the appendix of Conn's Biological Stains.

**Formerly** Commission on Standardization of Biological Stains (1944)

**Keywords** biological stains; testing; medical instruments;

#### BLUE ANCHOR

Dennis N. Icardi, President

P.O. Box 15498  
Sacramento, California 95851  
(916) 929-3050 Telex: 37-74291  
FAX: (916) 921-9362

Founded: 1901

**Type of Organization** Agricultural Cooperative Standards Developer since 1930

**Scope** A fresh fruit marketing cooperative handling the fruit of 1,000 growers organized into local associations and contract shippers. All fruit is subject to the standardization program.

**Standardization Activities** Issues standards on all deciduous tree fruit and table grape commodities. Updates the Rules and Regulations for each annual season. The standardization policy is set by a Standardization Committee and enforced by authorized agents of the Field Department. Standards required for company members only. Works with various federal and state marketing orders covering pears, plums, peaches, nectarines, and grapes.

**Formerly** California Fruit Exchange

**Keywords** food; fruit marketing; agriculture;

#### BOOK INDUSTRY STUDY GROUP

Sandra K. Paul, Managing Agent

160 Fifth Avenue  
New York, New York 10010  
(212) 929-1393 FAX: (212) 989-7542



<b>Type of Organization</b>	Trade Association Standards Developer
<b>Scope</b>	A nonprofit organization whose members come from all areas of the book trade. Specializes in industry research.
<b>Standardization Activities</b>	Committees review existing standards and select those appropriate for the book industry. Endorsed Bookland EAN bar code for books, Code 128 Representation of a draft ANSI/NISO standard for serial identification, and the F.A.C.T. Code 39 Data Identifiers for bar coding book cartons and shipping containers. The Book and Serial Industry Systems Advisory Committees (BISAC and SISAC) develop standards for electronic data interchange, some of which are passed on to the National Information Standards Organization (NISO) to become ANSI/NISO standards. BISAC and SISAC developed unique electronic data interchange formats and are now mapping data elements for ASC X12 conversion.
<b>Keywords</b>	books; serials; publishing; communications; data and information processing;

#### BOOK MANUFACTURERS INSTITUTE

Douglas E. Horner, Executive Vice President

111 Prospect Street, Suite 405  
Stanford, Connecticut 06901  
(203) 324-9670

Founded: 1933

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Government Adoption</b>	Quality standard adopted by most states
<b>Secretariats</b>	Advisory Commission on Textbook Specifications (ACTS)
<b>Scope</b>	A trade association for book manufacturers and suppliers of book materials and book manufacturing equipment.
<b>Standardization Activities</b>	Together with the Association of American Publishers and the National Association of State Textbook Administrators, provides delegates to the Advisory Commission on Textbook Specification (ACTS) which meets twice each year. ACTS has developed a set of manufacturing standards and specifications which must be met before the purchase of a particular textbook

will be considered by most state adoption agencies. This booklet, titled Manufacturing Standards and Specifications for Textbooks (MSST), contains quality standards and specifications for paper, printing, and binding, and provides sample forms which should be used by both the state agencies and the publishers of textbooks. The MSST covers only elementary and high school textbooks.

**Availability** Distributed directly

**Formerly** Employing Bookbinders of America (1933)

**Keywords** books; textbooks; education; communications;

**BRASS AND BRONZE INGOT MANUFACTURERS**

Julie A. Sculthorpe, Administrative Assistant

300 West Washington  
Room 1500  
Chicago, Illinois 60606  
(312) 236-27135

Telex: 280041  
FAX: (312) 236-8772

Founded: 1989

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representation** ASTM, SAE, foundry societies, and others

**Scope** Manufacturers of ingot brass and bronze for the foundry industry.

**Standardization Activities** Cooperates with the American Foundrymen's Society, the Non-Ferrous Founders' Society, and affiliated and similar organizations in developing methodology and standards for the production of copper base alloy castings. Participates with ASTM, SAE, Copper Development Association, and military and federal specifications bodies and others in the development of standards and specifications covering ingot brass and bronze. Involved in development of standard reference materials for NIST and has sponsored and directed basic research relating to copper based alloys. Maintains a Technical Committee to consider related subject matter.

**Formerly** Non-Ferrous Ingot Metals Institute; Brass and Bronze Ingot Institute (1928); Association of Brass and Bronze Ingot Manufacturers (1950).

**Keywords** brass; bronze; casting alloys; materials;

## **BRICK INSTITUTE OF AMERICA**

J. Gregg Borchelt, P.E., Vice President of Engineering & Research

11490 Commerce Park Drive  
Suite 300  
Reston, Virginia 22091  
(703) 620-0010

Founded: 1934

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

National association of brick manufacturers and the national authority on brick construction. Promotes the further and proper use of brick.

**Standardization  
Activities**

Standards development, review, writing, and promulgation are the responsibilities of the Engineering and Research Division. Maintains an exchange and liaison with similar organizations in other countries. Also maintains close liaison with government agencies writing standards in the construction industry field, National Institute of Standards and Technology, National Institute of Building Sciences, and the Departments of Housing and Urban Development, Defense, Energy, Labor, and Commerce. Works with other standards-writing organizations in the development of standards involving or related to Brick Masonry as follows: American Concrete Institute and American Society of Civil Engineers - ACI 530, ASCE 5, Building Code Requirements for Masonry Structures, ACI 530.1 and ASCE 6, specifications for Masonry Structures; American Society for Testing and Materials - Committees C-12 on Mortar for Unit Masonry, C-15 on Manufactured Masonry Units, D-1 on Paint and Related Coatings and Materials, E-5 on Fire Testing and E-6 on Performance of Building Constructions; Building Seismic Safety Council, National Fire Prevention Association

Engaged in research for the development of new standards dealing with masonry design and applications. Currently working on limit states design standard for masonry in conjunction with the National Masonry Standards Joint Committee of the American Concrete Institute, the American Society of Civil Engineers, and The Masonry Society.

**Availability**

Distributed directly



**Formerly** Structural Clay Products Institute  
**Keywords** masonry, brick; construction; building;

**BUILDERS HARDWARE MANUFACTURERS ASSOCIATION**

J. Dudley Waldner, Executive Director

c/o Trade Group Associates, Managers  
355 Lexington Avenue  
New York, New York 10017  
(212) 661-4261

Founded: 1925

Standards Staff: 2

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1966  
70 members active in standards development  
21 active standards  
21 processed through ANSI  
3 standards in development

**Standards Designation** ANSI/BHMA prefix

**Government Adoption** The Department of Defense has adopted all BHMA sponsored ANSI standards.

**Certification** Sponsors three certification programs; one for locks, one for door closers and one for exit devices. ETL Testing laboratories is administrator and testing agency for locks and closers. Underwriters Laboratories is the administrator and testing agency for exit devices.

**Scope** A national trade association representing manufacturers of builders hardware. Provides programs for its members in the areas of industrial relations, management, and statistical programs.

**Standardization Activities** Is accredited by ANSI to develop standards for builders hardware using the canvass method. Participates on NFPA and ASTM Committees.

**Availability** Distributed directly, through ANSI, Door and Hardware Institute, and IHS

**Formerly** Hardware Manufacturers Statistical Association  
(1925-1961)

**Keywords** hardware; buildings;

## BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL

Clarence R. Bechtel, Executive Director

4051 West Flossmoor Road  
Country Club Hills, Illinois 60478-5795  
(312) 799-2300

Founded: 1915

Standards Staff: 55

**Type of  
Organization**

Professional Society  
Standards Developer

**Standards  
Development**

Promulgates the BOCA Basic Code Series of model codes for reference adoption by municipal and state governments.

**Standards  
Designation**

BOCA National Building Code; BOCA National Mechanical Code; BOCA National Plumbing Code; BOCA National Fire Prevention Code; BOCA National Property Maintenance Code; BOCA National Energy Conservation Code

**Government  
Adoption**

Codes are adopted by 17 states and 5000 local governments, predominantly in East and Midwest portions of the United States

**Certification  
program**

Maintains a voluntary education and certification for construction officials.

**Secretariats**

Council of American Building Officials (CABO) One and Two Family Dwelling Code.

**Scope**

A nonprofit municipal service membership organization involved in the field of code administration and enforcement, and community development. Goals are to serve the public by advocating the use of safe, suitable, modern construction techniques and materials, through its model codes program; and to serve jurisdictions and their code administrators by providing technological know-how and services related to all specialty areas of code administration and enforcement, in addition to a complete model codes maintenance program.

Membership services include code interpretations, materials and product evaluation reports, plan review, education programs and documents, and administrative reviews.

**Standardization  
Activities**

Activities carried on by the technical and professional staff under the direction of its Chief Executive Officer, appointed by the Board of Directors. BOCA

codes state performance requirements for materials under given conditions, and establish evaluation criteria resulting in reduced construction costs and allowing ingenuity on the part of the designer.

**Availability** Distributed directly

**Formerly** Building Officials Conference of America (1970)

**Keywords** safety; building; codes; plumbing code; mechanical code; fire code; maintenance code; energy conservation; construction; government officials;

**BUILDING OWNERS AND MANAGERS ASSOCIATION INTERNATIONAL**

James C. Dinegar, Vice President, Government Affairs  
1201 New York Avenue, NW  
Suite 300  
Washington, DC 20005  
(202) 289-7000 FAX: (202) 371-0181

Founded: 1908 Standards Staff: 1

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1915

**Secretariats** ANSI A120-Safety Standards for Power Operated Platforms and Equipment Used for Exterior & Interior Building Maintenance  
ANSI Z65.1 Method for Measuring Floor Space in Office Buildings

**Scope** A trade association serving owners and managers of commercial real estate, primarily office buildings. Studies operating costs, rental conditions, occupancy, fire and safety, and other conditions effecting the office building industry.

**Standardization Activities** Participates as Secretariat to two ANSI Standards Committees and other energy conservation standards committees. Active as a member or commentator to model code and standards groups.

**Availability** Distributed directly and through ANSI

**Formerly** National Association of Building Owners and Managers (1908)  
Building Owners and Manager Association International (1968)



**Keywords**                   rentable space; usable space; high rise office buildings; maintenance platforms; building; facilities management;

**BUSINESS AND INSTITUTIONAL FURNITURE MANUFACTURERS ASSOCIATION**

Stephen D. Channer, Executive Director

2235 Burton Street SE  
Grand Rapids, Michigan 49506  
(616) 243-1681

Founded: 1973

Standards Staff: 5

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1973  
240 member company representatives participating in standards activities  
6 active standards  
All ANSI approved  
Draft standards available for review

**Standards  
Designations**

ANSI/BIFMA prefix

**Government  
Adoption**

The General Services Administration has adopted ANSI/BIFMA standards for use in Commercial Item Descriptions.

**Certification**

Voluntary certification

**Scope**

A national trade association that represents U.S. companies engaged in the manufacture of office and institutional furniture. Functions on a national and international level, representing its membership in a wide range of engineering, statistical, and other relationships with public and government agencies.

**Standardization  
Activities**

Develops standards for the design and testing of office and institutional furniture including tests for: 1. office chairs, 2. lateral and 3. vertical files, 4. desks, 5. Lounge Furniture, and 6. Panel Systems Furniture. Maintains an Engineering Standards Committee with many subcommittees.

**Availability**

Distributed directly and through ANSI

**Keywords**

furniture; office furniture; institutional furniture; office products;

## CADMIUM COUNCIL

Hugh Morrow, Executive Director

P.O. Box 2664

Greenwich, Connecticut 06836

(203) 625-0911

FAX: (203) 625-0918

Founded: 1980

Standards Staff: 4

### **Type of Organization**

Trade Association

Works through other organizations to develop standards

### **Representation**

26 member companies

40 members on standards committees of ASTM, ANSI, NACE, SSPC, NEMA, NAMF, DCMA, AWS, ISO, AESF, MFSA, and a number of others

### **Scope**

The cadmium industry's market development and informational organization in North America, promoting increased usage of cadmium metal and chemicals through technology transfer, technical services, regulatory activities, and publicity programs. Maintains an awareness of studies on the environmental effects of cadmium and of the regulations affecting the manufacture, use, and disposal of cadmium-containing products. A nonprofit trade association supported by producers and consumers of cadmium both in North America and throughout the world.

### **Standardization Activities**

Promotes the increased use of cadmium metal and chemicals and maximizes the effectiveness of its members on national standards committees. Assists the work of standards developing bodies within its area of interest by designating Council members to coordinate with the appropriate code bodies.

Participates in developing standards including specifications for cadmium electroplating for corrosion and wear properties, color pigments, nickel-cadmium, and other cadmium-containing batteries, cadmium chemical stabilizers in plastics, and for a wide variety of soldering and brazing alloys.

### **Keywords**

electroplating; corrosion protection; pigments; batteries; chemicals; materials;

## CAN MANUFACTURERS INSTITUTE

David Sorensen, Director, Finance and Statistics

1625 Massachusetts Avenue, NW  
Washington, DC 20036  
(202) 232-4677

Founded: 1939

**Type of  
Organization**

Technical Society  
Standards Developer

**Scope**

A nonprofit membership corporation representing U.S. manufacturers of all metal cans. The membership is concerned with government specifications for cans and legislation affecting cans and can standards.

**Standardization  
Activities**

Maintains Can Standards Committee which develops standards on sanitary cans for sizes in general demand. Creates ad hoc subcommittees as necessary to study and/or recommend specific standards for full committee action. Maintains contact with the National Institute of Standards and Technology and the International Organization for Standardization in the formation of standards.

Publishes Recommended CMI Voluntary Industry Can Standards. Recommended standards are strictly voluntary, but conforming is encouraged as being beneficial to can manufacturers and can users.

**Availability**

Distributed directly

**Keywords**

can manufacture; packaging;

## CARPET AND RUG INSTITUTE

E. Ken McIntosh, Director of Technical Services

Box 2048  
Dalton, Georgia 30720  
(404) 226-3877

Founded: 1963

Standards Staff: 4

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

AATCC, ASTM, NFPA and other standard development organizations



<b>Scope</b>	A national trade association of 101 carpet and rug manufacturers and 118 companies supplying services and products to the industry. Works on a national and international level to promote its products and provide satisfaction with these products.
<b>Standardization Activities</b>	Standards activities are based on the development of tests which can be used by industry and interested parties to test various components or characteristics of carpets and rugs.
<b>Formerly</b>	American Carpet Institute Tufted Textile Manufacturers Association
<b>Keywords</b>	carpet; rugs; consumer products;

#### CAST IRON SOIL PIPE INSTITUTE

William H. LeVan, Executive Vice President

5959 Shallow Ford Road  
Suite 419  
Chattanooga, Tennessee 37421  
(615) 892-0137

Founded: 1949

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1949 Technical Committee develops Standards pending approval of the Institute's Board of Directors; ASTM A74-82, endorsed by CISPI
<b>Standards Designation</b>	CISPI prefix
<b>Government Adoption</b>	HUD, WW-P-401E; PBS (PCD) 15410; DOD 4270.21; CEGS 15400; CE 300.01; CE 300.02; CE 600.01; NAVFAC TS-15301; and NAVFAC TS-15401
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Scope</b>	Aids the U.S. plumbing industry in cooperation with the soil pipe manufacturers. Efforts include product improvement, standardization of soil pipe and fittings, and testing, evaluation, and development in the interest of public health and safety.

<b>Standardization Activities</b>	Develops standards for cast iron soil pipe and fittings which are accepted throughout the United States. These standards set dimensions and specifications which provide interchangeability between all manufacturers' pipes and fittings. The CISPI Standards are national in scope. The Technical Committee administers CISPI's Standardization Activities.
	The Institute's Technical Committee meets two times a year to review standards, engage in research and development activities, and update CISPI publications.
<b>Availability</b>	Through ASTM and plumbing wholesalers and distributors
<b>Keywords</b>	cast iron; plumbing; sanitation; construction; building;

#### CASTER AND FLOOR TRUCK MANUFACTURERS ASSOCIATION

	Thomas D. Dolan, Executive Secretary
	800 Custer Avenue Evanston, Illinois 60202 (312) 864-8444
	Founded: 1933
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1950 Forty members participate in standards activities Industrial Caster Standard MH11.1 processed through ANSI
<b>Standards Designation</b>	CFTMA Guides
<b>Scope</b>	A national trade association representing manufacturers of industrial casters and wheels and manually-operated industrial floor trucks. Maintains liaison with the Defense Supply Agency, DISC, Department of the Army, and GSA.
<b>Standardization Activities</b>	Publishes "Guide to Understanding and Specifying Industrial Casters and Wheels" which includes standard information on casters and wheels.
<b>Availability</b>	Sold directly
<b>Keywords</b>	casters; floor trucks; industrial equipment;

## CEDAR SHAKE AND SHINGLE BUREAU

Michael M Westfall, President

515 116th Avenue, NE, Suite 275  
Bellevue, Washington 98004  
(206) 453-1323 FAX: (206) 455-1314

Founded: 1915

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Designation**

Grading Rules for Certi-Split Red Cedar Shakes - 1985  
Grading Rules for Certigrade Red Cedar Shingles - 1984  
Grading Rules for Cert-Saun Red Cedar Shakes - 1981

**Government  
Adoption**

Adopted by all national model building codes which are now recognized by the U.S. Department of Housing and Urban Development (HUD)

**Certification**

Performs unannounced inspections of over 300 shake and shingle mills in the northwest United States and Canada. Prints and issues labels for product identification for use by complying mills.

**Scope**

Membership includes manufacturers, distributors and users of red cedar shakes and shingles. In addition, inspects and labels shakes and shingles manufactured from species other than red cedar under the auspices of the Wood Shake and Shingle Association, an in-house subsidiary. Promotes the acceptance and use of shake and shingle roofing and siding materials through advertising and trade promotion.

**Standardization  
Activities**

Develops and revises standards relating to the quality, packaging and application of shakes and shingles.

**Formerly**

Red Cedar Shingle and Handsplit Shake Bureau - 1988  
RCSHSB formed from merger of Red Cedar Shingle Bureau and Handsplit Cedar Shake Association - 1963  
Red Cedar Shingle Bureau formed in 1915

**Keywords**

wood products; roofing; grading rules; inspection; lumber; building;



## CEILINGS AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION

Carl A. Wangman, Executive Vice President

104 Wilmot Road  
Suite 201  
Deerfield, Illinois 60015-5195  
(708) 940-8800

Founded: 1949

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	ASTM
<b>Scope</b>	An international organization serving the needs of specialty subcontractors who sell and install ceiling systems, as well as other related products and systems.  Provides programs for exchanging information about the industry and its trends, and develops working alliances with other organizations within the construction contracting industry to deal with common problems.
<b>Standardization Activities</b>	Participated in the development of the American Society for Testing and Materials (ASTM) Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings (ASTM C635-69), and Standard Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels (ASTM C636-69). Also active in the development of Recommended Standards for Seismic Restraint of Direct-Hung Suspended Ceiling Assemblies.
<b>Formerly</b>	National Acoustical Contractors Association (1969) Ceilings and Interior Systems Contractors Association (1949)
<b>Keywords</b>	acoustical tile; ceilings; buildings;

## CELLULOSE INDUSTRY STANDARDS ENFORCEMENT PROGRAM

Daniel Lea, Administrator

1315 Talbott Tower  
Dayton, Ohio 45402  
(513) 223-1891

FAX: (513) 222-5794

Founded: 1982

<b>Type of Organization</b>	Certification Program Works through other organizations to develop standards
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<b>Certification</b>	Certifies compliance with CPSC Interim Safety Standard 16 CFR Part 1209 and ASTM C-739 for initial certification. Monitors and documents continuing compliance with fire, corrosion, and settled density sections of ASTM C-739, and FTC "R-Value-Rule" (16 CFR Part 460).
<b>Scope</b>	Open to all manufacturers of loose-fill cellulose insulation in the United States and territories. Since elements of program are based on U.S. law there is no international membership.
<b>Standardization Activities</b>	Most CISEP participants and the Program Administrator are active members of ASTM Committee C-16, which is responsible for standard Specification C-739, which is the core of the Program's enforcement activity. CISEP represents the U.S. cellulose insulation industry on the ISO Insulation Standards Committee. CISEP works to promote uniformity and compatibility of standards and regulations that apply to cellulose insulation.
<b>Keywords</b>	insulation; cellulose insulation; thermal insulation; building materials; loose-fill insulation;

#### **CEMENTED CARBIDE PRODUCERS ASSOCIATION**

Allen P. Wherry, Commissioner

30200 Detroit Road  
Cleveland, Ohio 44145  
(216) 899-0010

Telex: 98-5559  
FAX: (216) 892-1404

Founded: 1955

Standards Staff: 3

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	30 active standards
<b>Standards Designations</b>	ANSI B212.x
<b>Secretariats</b>	Promulgates its documents through ANSI/ASC B212. Accredited Standards Committee for cemented carbide.
<b>Scope</b>	Manufacturers of cemented tungsten carbide cutting tools, dies, and wear parts.

<b>Standardization Activities</b>	Actively engaged in standardization activities through ANSI/ASC Committee B212, TC-1; develops standards dealing with the dimensional, physical, metallurgical, and chemical aspects of cemented carbide products; cooperates with ISO, ASTM, NIST, and others in standards development; standards include turning tools, wire, bar and tube drawing dies; and sampling and testing methods for hard metals.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	carbide; materials, manufacturing;

#### CENTER FOR AGRICULTURAL EQUIPMENT

Dr. Louis I. Leviticus, Associate Director

AEL Building - East Campus  
University of Nebraska  
Lincoln, Nebraska 68583-0832  
(402) 472-2442 FAX: (402) 472-6338

<b>Type of Organization</b>	Research Organization Works through other organizations to develop standards
<b>Representation</b>	Represented on relevant SAE, ASAE, and OECD committees as well as International Technical Advisory Groups.
<b>Standardization Activities</b>	Testing of equipment for industry according to established standards. Develop proposals for new standards when technology requires. Specific examples include noise test standards for tractors, protective structure test, partial power PTO test, and hydraulic lift capacity (dynamic) test.
<b>Keywords</b>	agricultural machinery; off-road equipment; engines; testing; fuels; safety; consumer products;

#### CERTIFIED AUTOMOTIVE PARTS ASSOCIATION

Jack Gillis, Executive Director

1518 K Street, NW  
Suite 305  
Washington, DC 20005  
(202) 737-2212 FAX: (202) 737-2214

Founded: 1988

<b>Type of Organization</b>	Certification Organization Standards Developer
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<b>Certification</b>	Included in certification is inspection of the factory, evaluation of quality control manuals used in the manufacture of the parts, inspection and review of the manufacturing process, materials testing, corrosion testing of metal parts and the evaluation of the fit and finish of the final product.
<b>Scope</b>	The CAPA program certifies sheet metal and plastic auto body parts. The program is open to all manufacturers of such parts. There are currently over 550 competitive aftermarket auto body parts which have been certified as meeting CAPA's standards for quality, fit and finish.
<b>Standardization Activities</b>	Standards are developed under the auspices of CAPA's Technical Committee which is made up of representatives from the insurance, auto body parts manufacturers, and parts distribution industries. These standards are developed with the assistance of independent technical testing laboratories.
<b>Keywords</b>	aftermarket auto body parts; transportation; automobile; manufacturing;

#### **CERTIFIED BALLAST MANUFACTURERS**

M. C. Davies, Secretary

1422 Euclid Avenue  
Suite 772  
Cleveland, Ohio 44115  
(216) 241-0711

Founded: 1939

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	ANSI, UL
<b>Certification</b>	Certification program for ballasts operating standard fluorescent lamps. Open to any manufacturer who wishes to qualify. To be certified CBM, ballasts must meet performance requirements of ANSI specifications C82.1, including the electrical requirements specified in the C78 standard for the lamp type to be operated. Ballasts must also be UL listed and High Power Factor. Compliance is repeatedly verified by ETL Testing Laboratories, an independent testing organization, which periodically selects samples at random from manufacturers' current CBM production and tests them, as prescribed in ANSI C82.2 and C82.3.

<b>Scope</b>	Major producers of ballasts for fluorescent lamps. Promotes fluorescent lighting by encouraging the manufacture of ballasts which provide quality performance.
<b>Standardization Activities</b>	Works through ANSI to develop standards for fluorescent ballasts.
<b>Formerly</b>	Ballast Advisory Committee (1949)
<b>Keywords</b>	fluorescent lighting; ballasts, electrical equipment;

#### CHAIN LINK FENCE MANUFACTURERS INSTITUTE

Mark Levin, CAE, Executive Vice President

1776 Massachusetts Avenue, NW

Suite 500

Washington, DC 20036

(202) 659-3536

FAX: (202) 659-1244

Founded: 1960

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Scope</b>	Provides a forum to exchange ideas; promotes the use of chain link fence; collects statistics and works with consumers to develop guidelines for fence products.
<b>Standardization Activities</b>	Coordinates the entire fence specification field with the American Society for Testing and Materials. Works toward setting universal standards for fence specification. Develops voluntary consensus standards. Promotes the usage of ASTM standards throughout the industry. Publishes a Product Manual which includes ASTM standards.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	fence; construction;

#### CHEMICAL FABRICS AND FILM ASSOCIATION

Charles M. Stockinger, Executive Secretary

1230 Keith Building

Cleveland, Ohio 44115

(216) 241-7333

Telex: 980393 - Thomas Assoc.

Founded: 1927

Standards Staff: 2

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	12 member companies participating in standards activities Draft standards available for review by non-members None processed through ANSI
<b>Scope</b>	A voluntary, nonprofit trade association which includes among its members 12 North American manufacturers of chemically coated fabrics and PVC sheet and film. Represents its membership in technical, environmental, and governmental affairs of interest to the industry. One of its objectives is to inform and educate the consuming public regarding the uses and merits of chemical fabrics and film; interested in encouraging high standards of quality and service throughout the industry.
<b>Standardization Activities</b>	Directed toward the setting of voluntary performance and quality standards for various product lines. Solicits input for all interested parties. Works closely with the American Society for Testing and Materials. Committees review and make recommendations on government standards, specifications, and documents; and participate in standards programs with the National Institute of Standards and Technology, Underwriters Laboratories, and other standard setting organizations related to the industry.  Standards are voluntarily adopted by manufacturers and users and applied to various product lines when performance, reliability, and safety are essential.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Institute of Leather Cloth and Lacquered Fabric Manufacturers (1932) Pyroxylin and Resin Coaters Institute (1943) Plastic Coatings and Film Association (1948) Vinyl Fabrics Institute (1955)
<b>Keywords</b>	coated fabrics; sheet and film; upholstery; vinyl; wall covering; materials;

#### CHEMICAL MANUFACTURERS ASSOCIATION

Geraldine V. Cox, Vice President

2501 M Street, NW  
Washington, DC 20037  
(202) 887-1100

Telex: 89617 CMA WSH  
FAX: (202) 887-1237



Founded: 1872

Standards Staff: 2

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Processed through ANSI

**Standards  
Designation**

ANSI

**Scope**

A nonprofit trade association whose company members represent more than 90% of the productive capacity of basic industrial chemicals within this country.

**Standardization  
Activities**

As a standards developer using the canvass method, sponsors American National Standard Z129.1, Precautionary Labeling of Hazardous Chemicals. As a standards developer using the committee method, sponsors American National Standards Committee B96, Welded Aluminum-Alloy Storage Tanks.

Provides over 50 members to serve as its representatives on national standards committees, boards, and councils dealing with standards for plant equipment, packaging equipment, transportation equipment, and occupational safety and health. Standards organizations involved include ANSI, AAR, ASME, NFPA, and SSCI.

Participates heavily in standards development proposed by other organizations for adoption as American National Standards by the canvass route. Standards organizations involved include API, CEMA, IEEE, ISA, MSSVFI, NEMA, SPI, and UL. Also participates in ASTM committees on occupational health and safety, waste disposal, spills, and analysis of industrial chemicals.

**Availability**

Distributed through ANSI

**Formerly**

Manufacturing Chemists Association (1979)

**Keywords**

labeling; hazardous chemicals; materials;

**CHEMICAL SPECIALTIES MANUFACTURERS ASSOCIATION**

Douglas Fratz, Director, Scientific Affairs

1913 Eye Street, NW  
Washington, DC 20006  
(202) 872-8110

(202) 872-8114

Founded: 1914

Standards Staff: 2

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Designation**

CSMA prefix or CSMA Bulletin No.

**Government  
Adoption**

CSMA product performance evaluation methods have been used for government procurement purposes by GSA. Many have been adopted by ASTM.

**Scope**

Four hundred companies involved in manufacturing, formulating, packaging, and marketing chemical specialties products, including home, lawn, garden, transportation, institutional, and industrial products. Works in various areas, including federal and state governmental affairs (both legislative and regulatory), communications, public relations, marketing, legal affairs, and scientific and technical affairs.

**Standardization  
Activities**

Develops standard product characterization methods, product performance evaluation test methods, and recommended practices for manufacturers and formulators of chemical specialties products through numerous scientific and technical committees in CSMA's six divisions: (1) Aerosol; (2) Industrial and Automotive Specialties; (3) Detergents and Cleaning Compounds; (4) Disinfectants and Sanitizers; (5) Pesticides; and (6) Waxes, Polishes, and Floor Finishes.

Has numerous representatives on committees of voluntary consensus organizations such as ANSI, ASTM, NFPA, ANMC, and AOAC. Standards originated and promoted by CSMA are now ASTM, AOAC, SAE, or other standards as well. Published manuals and compendiums including: Aerosol Guide; Detergents and Cleaning Compounds Test Methods Compendium; Microbiological Test Methods Compendium; Waxes, and Polishes and Floor Finishes Test Methods and General Information.

**Availability**

Distributed directly

**Formerly**

National Association of Insecticide and Disinfectant Manufacturers (NAIDM)

**Keywords**

chemical specialties; household chemicals; aerosols; automotive chemicals; disinfectants; sanitizers; detergents; cleaners; pesticides; insecticides; waxes; polishes; floor finishes; materials; consumer products;

## CHLORINE INSTITUTE

Robert G. Smerko, President

2001 L Street, NW  
Suite 506  
Washington, DC 20036  
(202) 775-2790

FAX: (202) 223-7225

Founded: 1924

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Standards committees of ANSI, ASTM, AWWA, NFPA, and committees of the Association of American Railroads
<b>Scope</b>	Concerned with the safe manufacture, transportation, and use of chlorine and caustic soda in the United States and Canada. Committees provide comments on draft standards pertinent to the industry.
<b>Standardization Activities</b>	Publishes literature and drawings of equipment as guidelines and recommended practices for handling chlorine, caustic soda and caustic potash.
<b>Keywords</b>	chlorine; caustic soda; caustic potash; chemicals; safety; materials;

## CLEANING EQUIPMENT MANUFACTURERS ASSOCIATION

Maxine Lee Couture, Executive Vice President

111 East Wacker Drive  
Suite 600  
Chicago, Illinois 60601  
(312) 644-6610

Founded: 1980

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1981 50 members participate in standards activities 12 members are represented on the standards committee UL Standard 1776 Draft standards available for review
<b>Standards Designations</b>	CEMA Standards for Cleaning Machines



<b>Scope</b>	An international trade association of manufacturers which make commercial-industrial cleaning machines including cold water high pressure cleaners and blasters, hot water high pressure cleaners, steam cleaners, and water jetting equipment.
<b>Standardization Activities</b>	Activities directed toward the development of nationally recognized Equipment Safety Standards intended to provide a basis for common understanding and reference within the cleaning equipment industry among suppliers, manufacturers, distributors, dealers, resellers or installers, and owner-users; and serve as reference guides for government agencies, and industry when making purchasing decisions. Anticipates standards adoption as national consensus standards through ANSI. Circulates draft standards among its membership and also Underwriters Laboratories.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	cleaning machines; water blasters; industrial equipment; steam cleaners;

#### COATED ABRASIVES MANUFACTURERS INSTITUTE

Charles M. Stockinger, Managing Director

1230 Keith Building  
Cleveland, Ohio 44115  
(216) 241-7333

Telex: 980-393

Founded: 1933

Standards Staff: 2

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	7 member companies participate in standards activities Standards processed through ANSI Draft standards available for review
<b>Secretariats</b>	CAMI Technical Committee serves as Technical Committee on Coated Abrasives of the B74 Committee. CAMI Safety and Industrial Health Committee serves as the Technical Committee B7 of the B74 Committee.
<b>Scope</b>	A voluntary, nonprofit association of manufacturing companies which coat and manufacture various types and forms of coated abrasive products in the United States.
<b>Standardization Activities</b>	Develops standards for grading of certain abrasive grains on coated abrasive products. These specifications include grading requirements for screen grit size and sedimentation grit sizes of aluminum

oxide, silicon carbide, garnet, emery, and flint abrasive grains for use on coated abrasive products; procedures for recovery of abrasive grains from products to be tested; and procedures for testing recovered abrasive grains to determine if they conform to grading requirements. Definitions of the trade terms used and methods for identifying products which conform to this standard are included.

Also develops standards which establish the minimum safety requirements related to the usage of coated abrasive forms. Requirements apply to hand-held and fixed-mounted machine operations that use some form of coated abrasive product, and to safety-related maintenance precautions for machines and machine parts. Also contain safety requirements pertinent to operator and bystander protection, dust collection, and potentially hazardous environmental conditions.

**Availability** Distributed directly and through ANSI

**Keywords** abrasives; manufacturing; safety; industrial equipment;

#### COLLEGE OF AMERICAN PATHOLOGISTS

Lee VanBremen, Executive Director

325 Waukegan Road  
Northfield, Illinois 60093-2750  
(708) 446-8800

Founded: 1947 Standards Staff: 1

**Type of Organization** Professional Society  
Standards Developer and works through other organizations to develop standards

**Certification** Operates a voluntary accreditation program for medical laboratories; commissioned by the National Research Council to batch certify secondary cyanmethemoglobin standards.

**Scope** A nonprofit association of more than 10,000 pathologists. Develops and offers programs for the improvement and maintenance of the quality of medical and physician office laboratory testing. Operates a national proficiency survey program with over 13,000 medical and 7,000 physician office laboratories participating.

**Standardization Activities** A 9 member Standards Committee coordinates development of reference materials for standardization of medical laboratory tests, coordinates liaison with other

standard setting organizations. Identifies problems in standards development, coordinates their solution. Collaborates with the National Institute of Standards and Technology, the National Institutes of Health, and the Centers for Disease Control.

**Availability**

Sold directly

**Keywords**

pathology; medicine; medical; laboratory; proficiency; accreditation; health care;

**COLOR ASSOCIATION OF THE UNITED STATES**

Marielle Bancou, Executive Director

409 West 44th Street  
New York, New York 10036  
(212) 582-6884

FAX: (212) 757-4557

Founded: 1915

Standards Staff: 1

**Type of  
Organization**

Trade Association  
Standards Developer

**Government  
Adoption**

DoD Color Card

**Certification**

No certification, qualification, or accreditation programs

**Scope**

Membership comes from the textile and fashion industries, and the interior design and environmental fields. Issues seasonal color forecasts of dyed fabrics for women's and men's apparel twice a year. Issues a yearly forecast of interior colors for the interior and environmental fields; these forecasts are applicable to companies producing dyestuffs, paints, automobiles, airplanes, home furnishings, textiles, plastics, cosmetics, and other products. Standardizes government and industry colors; offers consultations; maintains archives and fabric swatch library.

**Standardization  
Activities**

Produces a Standard Color Card of America for the purpose of simplifying color work by establishing color standards favored for use in the United States. The card presents a comprehensive palette of preferred American colors and is primarily directed to the textile, fashion, and environmental industries.

**Availability**

Distributed directly

**Keywords**

textile; fashion; interior design; color; sports; consumer products; general;



## COMMERCIAL REFRIGERATOR MANUFACTURERS ASSOCIATION

Robert T. Chancler, Executive Director

1101 Connecticut Avenue, NW  
Suite 700  
Washington, DC 20036  
(202) 857-1145

Founded: 1933

Type of Organization	Trade Association Standards Developer
Standards Development	One active standard
Standards Designation	CRS prefix
Certification	No certification, qualification, or accreditation programs
Scope	Manufacturers of refrigerated display cases and cabinets, food service refrigerators, and sectional cooling rooms.
Standardization Activities	Develops and revises Voluntary Minimum Standard for Retail Food Store Refrigerators - Health and Sanitation, CRS-S178 - as required.
Availability	Sold directly
Keywords	refrigerators; refrigeration;

## COMPOSITE CAN AND TUBE INSTITUTE

Kristine Garland, Executive Vice President

1818 N Street, NW  
Suite T-10  
Washington, DC 20036  
(202) 223-4840

Founded: 1933

Type of Organization	Trade Association Standards Developer
Scope	A nonprofit international organization which fosters the collective interests of the composite can, tube, core, and fiber drums industry.

**Standardization  
Activities**

Administers a Technical Committee active in standards development.

Does not participate in international programs or federal government standardization activities, except when requests are received for specific information.

Publishes standard testing procedures to provide uniform methods for both manufacturers and users to measure and test the physical characteristics of composite cans, tubes, and cores. Develops and publishes recommended industry standards covering dimensions for certain high volume types of composite cans to accommodate customers' closing and handling equipment. Publishes guidelines as sources of information for manufacturers and users of industry products. Publishes and revises testing procedures.

**Availability**

Distributed directly

**Formerly**

National Fibre Can and Tube Association (1970)

**Keywords**

composite cans; composite tubes; packaging; cores; fiber drums;

**COMPRESSED AIR AND GAS INSTITUTE**

John H. Addington, Secretary-Treasurer

1230 Keith Building  
Cleveland, Ohio 44115  
(216) 241-7333

FAX: (216) 241-0105

Founded: 1915

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

45 member companies participate in the standards development for industry products used in manufacturing, construction, mining, and other industries.

**Scope**

A national trade association of companies which manufacture air and gas compressors, pneumatic machinery and compressed air and gas drying equipment.

**Standardization  
Activities**

Representative standards that the institute has developed include performance statements which identify parameters for performance evaluation of centrifugal compressors; a test standard for rating compressed air dryers; and the test code for sound measurement of pneumatic equipment, ANSI S5.1. The latter standard

was developed jointly with the European Committee of Manufacturers of Compressed Air Equipment.

**Availability** Sold directly

**Keywords** noise control; construction; manufacturing; industrial equipment; safety; machinery;

#### COMPRESSED GAS ASSOCIATION

Carl T. Johnson, President

1235 Jefferson Davis Highway

Suite 501

Arlington, Virginia 22202

(703) 979-0900

Telex: 650 339 1969 MCI WW

FAX: (703) 979-0134

Founded: 1913

Standards Staff: 15

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1913  
250 member companies participating in standards activities  
90 active standards, including metric

**Standards Designation** CGA prefix; in some instances, standards also bear ANSI and Canadian Standards Association (CSA) designations.

**Government Adoption** Standards comply with Department of Transportation and other government agencies where applicable (federal, state, and local regulations).

**Certification** No certification, qualification, or accreditation programs

**Scope** Provides, develops, and coordinates technical activities in the compressed gas industries, including end-uses of products, so that they may serve the best interest of the public and industry. Active primarily in the fields of safety and technical specifications pertaining to the compressed gas and related product and service industries, including the medical fields of anesthesia and respiration.

**Standardization Activities** Collaborates with national organizations such as the NFPA, the National LP-Gas Association, ASTM, ANSI, AAR, and the American Society of Anesthesiologists, to develop far-reaching specifications and standards of safety to benefit industry and the public.



Compiles information and publishes material, such as the Handbook of Compressed Gases, and pamphlets which contain a description of the used gases and give in detail the safest methods for handling and storing gases. Provides audiovisual presentations.

Conducts national and regional technical meetings and seminars to discuss practices, standards, and problems related to the broad spectrum of the compressed gas industries.

Submits recommendations to appropriate government agencies to improve safety standards and methods of handling, transporting and storing gases. Acts as advisor to authorities, some of which are regulatory such as the U.S. Department of Transportation, the U.S. Interstate Commerce Commission, U.S. Coast Guard, U.S. Food and Drug Administration, Canada's Board of Transport, and state, provincial, municipal, and local agencies concerned with the safe handling of compressed gases. Participates in committees of the United Nations and the International Organization for Standardization (ISO).

<b>Availability</b>	Distributed directly and through IHS and Global
<b>Formerly</b>	Compressed Gas Manufacturers Association (1949)
<b>Keywords</b>	compressed gases; medical; cryogenic; safety; transportation; materials; cylinders;

#### COMPUTER AIDED MANUFACTURING INTERNATIONAL

Ben E. Kaminski, President

1250 East Copeland Road  
Suite 500

Arlington, Texas 76011-8098

(817) 860-1654

Telex: (817) 275-6450

Founded: 1972

Standards Staff: 2

**Type of  
Organization**

Trade Association  
Standards Developer and works through other organizations to develop standards

**Standards  
Designation**

ANSI/CAM-I

<b>Scope</b>	A nonprofit research and development membership corporation dedicated to advancing state-of-the-art technology in the application of computers to manufacturing.
<b>Standardization Activities</b>	CAM-I is an accredited standards-making body of ANSI. The CAM-I Standards Committee maintains an active membership of representatives from the industrial and educational members of the CAM-I organization. It develops proposed standards, adopts existing standards, or encourages development of these standards by organizations such as ANSI and NIST. Proposes and fosters national and international standards in association with ANSI, ISO, and other standards groups. Addresses and reviews needed standards; evaluates their potential impact on CAM-I member companies, national, and international standards.
<b>Formerly</b>	Auto-program-tools Long Range Program (ALRP) (1972)
<b>Keywords</b>	CAD/CAM; computers; software; manufacturing; geometric modeling; process planning; NC; cost management; quality assurance; scheduling;

#### COMPUTER AND BUSINESS EQUIPMENT MANUFACTURERS ASSOCIATION

John L. Pickitt, President

311 First Street, NW  
Washington, DC 20001  
(202) 737-8888

FAX: (202) 639-4922

Founded: 1916

Standards Staff: 9

#### **Type of Organization**

Trade Association  
Standards Developer

#### **Standards Development**

50 member companies active in standardization activities  
325 standards  
All processed through ANSI  
65 waiting approval

#### **Secretariats**

American National Standards Committee X3, Information Processing Systems  
Technical Administrator for U.S. TAG for ISO-IEC/JTC1, Information Technology

#### **Scope**

A nonprofit organization that provides its members a forum for industry consultation and united action; a means for communicating facts and views of the industry to government, to other industries, and the public.

## **Standardization Activities**

Does not publish standards in its own name but participates actively with national standards bodies. An organizational member of ANSI. Through its Environment and Safety Committee, represents its members to other American National Standards Committees, including B11, Safety Standards for Machine Tools; C63, Radio-Electrical Coordination; C101, Leakage Current for Appliances; S1, Acoustics; S12, Noise; Z136, Laser Safety. Serves on the ANSI Executive Standards Council, Information Systems and Electrical and Electronics Standards Boards, the Industrial Automation Panel, and participates in the Underwriters Laboratories Industry Advisory Conference, Office Appliances and Data Processing Equipment sections.

Promotes standards through publicity in association communications and the technical and trade press; distribution by member companies; reference to, and incorporation of, standards in member company public and internal technical publications; and through implementation of standards in member company products. Active standards committees and projects are listed in CBEMA annual and periodic activity reports.

Through American National Standards Committee X3, member companies participate in corresponding ISO-IEC JTC1, Information Technology, providing direct support to ANSI. Through the Underwriters Laboratories and the U.S. National Committee, CBEMA supports International Electrotechnical Commission Technical Committee 74, Safety of Office Machines and Data Processing Equipment. Also maintains active liaison and cooperation with the International Consultative Committee for Telephony and Telegraphy, CCITT, and the standards programs of the Information Technology Association of Canada, the European Computer Manufacturers Association (ECMA), and with national industry standards bodies of Japan and European countries.

Cooperates with the Federal Information Processing Standards (FIPS) program by direct liaison and exchange of documents between X3 and the National Institute of Standards and Technology. Represents the industry to the standards program of the Occupational Safety and Health Administration, Department of Labor, and related activities of the Department of Health and Human Services.

## **Availability**

Distributed directly and through ANSI and member companies



**Keywords** automation; computers; data processing; information processing; information systems; office machines; communications; information technology; electronic data interchange;

**COMPUTER SOFTWARE AND SERVICES INDUSTRY ASSOCIATION (ADAPSO)**

Luanne James, Executive Director

1300 North 17th Street  
Suite 300  
Arlington, Virginia 22209  
(703) 522-5055 FAX: (703) 525-2279

Founded: 1960

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representation** Active in the standards activities of IEEE and ANSI

**Scope** 700 member companies offering data processing services and software to the public. Seeks to improve management methods, develop service possibilities and define standards of performance.

**Standardization Activities** Monitors standards which may affect its members, but does not actively participate in standards development. Serves as a clearinghouse for standards on computer networks, software, hardware as it affects software, disks, and diskettes and associated products. Cooperates with Network Users Association, National Institute of Standards and Technology, IEEE and ANSI.

**Formerly** Association of Data Processing Service Organizations

**Keywords** data processing; computer services; information industry; software; microcomputers;

**CONCRETE PLANT MANUFACTURERS BUREAU**

CONTROL SYSTEMS MANUFACTURERS DIVISION (CSMD)  
PLANT MIXER MANUFACTURERS DIVISION (PMMD)

Raymond F. Wisniewski, Executive Secretary

900 Spring Street  
Silver Spring, Maryland 20910  
(301) 587-1400

Founded: 1958

<b>Type of Organization</b>	Trade Association Standards Developer; affiliated with the National Ready Mixed Concrete Association
<b>Standards Designations</b>	CPMB, CSMD, and PMMD prefixes
<b>Government Adoption</b>	Widely used and referenced in government standards and specifications.
<b>Certification</b>	CPMB and PMMD rating plates are affixed to concrete plants and plant mixers meeting Bureau standards. CSMD uses stickers instead of plants to be affixed to control systems.
<b>Scope</b>	Develops engineering standards with a view toward simplification and standardization of sizes, capacities, and other criteria associated with the manufacture of concrete plants.
<b>Standardization Activities</b>	Develops standards for concrete plants and concrete mixers. Bureau standards subject to approval by the National Ready Mixed Concrete Association. Represented on committees of the National Ready Mixed Concrete Association. Participates in the development of governmental specifications or their interpretation.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	concrete; concrete plants; materials; construction;

#### CONCRETE REINFORCING STEEL INSTITUTE

Victor A. Walther, Jr., Vice President

933 North Plum Grove Road  
Schaumburg, Illinois 60173  
(708) 517-1200

Founded: 1924

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Scope</b>	Represents mill producers, fabricators, and suppliers of reinforcing bars. Associated members include producers and suppliers of other products used in concrete construction and fabricating equipment manufacturing. Increases the use of reinforcing bars through research, education, promotion, improved efficiency for lower final costs through better design, improved materials, and construction techniques.

<b>Standardization Activities</b>	Technical activities are conducted by the CRSI Engineering Practice Committee and subcommittees on bar supports, placing reinforcing bars, concrete joist construction, detailing reinforced concrete, and splicing reinforcing steel.
<b>Availability</b>	Sold directly
<b>Keywords</b>	reinforcing steel; concrete; joists; construction; building;

# CONSTRUCTION INDUSTRY MANUFACTURERS ASSOCIATION

Fred J. Broad, President and Secretary

111 East Wisconsin Avenue  
Bank One Plaza 940  
Milwaukee, Wisconsin 53202  
(414) 272-0943

Founded: 1909

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Designation</b>	PCSA Standard; LEMB prefix

<b>Scope</b>	A nonprofit U.S. trade association representing 200 companies which manufacture heavy construction machines and related components used in the general construction, roadbuilding, housing, mining, energy, and forestry fields.
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Acts as a forum for its member companies to discuss and act upon problems and issues of industry-wide concern, including product safety, machine performance standards, government liaison, international trade, statistical marketing data, parts and service information, and energy management.

<b>Standardization Activities</b>	Acts as a clearing house for the construction equipment manufacturing industry in the areas of safety, health, and environmental performance standards for construction machines. The term "performance standards" refers to performance criteria for machine safety, protective devices, noise characteristics, etc., as opposed to engineering standards which dictate design. Published standards include those for mobile cranes and excavators and ratings of vibratory rammers and plates.
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Representatives deal with technical issues (including machine nomenclature, classification and specifications; voluntary consensus standards; regulations; and research) and safety oriented issues for machines such as crawler tractors and loaders, wheel loaders and tractors, graders, dumpers (off-highway haulers), tractor-scraper, compactors, planers, soil stabilizers, cranes, and excavators.

Active in the broad area of commercial standards that cover product maintenance, usage, certification, test, and inspection. Writes and publishes commercial standards used by the American National Standards Institute in development of consensus standards.

**Availability**

Sold directly

**Keywords**

construction; machinery; road building; mining; forestry;

**CONSTRUCTION SPECIFICATIONS INSTITUTE**

Joseph A. Gascoigne, Executive Director

601 Madison Street  
Alexandria, Virginia 22314  
(703) 684-0300

Founded: 1948

**Type of  
Organization**

Technical Society  
Standards Developer

**Standards  
Development**

Standards developer since 1964  
350 guide specifications  
SPECTEXT - 440 sections  
SPECTEXT II - 100 sections  
None processed through ANSI  
Drafts not available for review

**Standards  
Designations**

MASTERFORMAT; SPECTEXT; SPECTEXT II; Manual of Practice

**Government  
Adoption**

The Department of Defense has adopted CSI MP-2-1 MASTERFORMAT, Master List of Titles and Numbers for the construction industry.

**Scope**

A national technical society dedicated to the advancement of construction technology through communication, education, research, and service. CSI serves the interests of more than 19,000 architects, engineers, specifiers, contractors, product manufacturers, and others in the construction industry.

**Standardization  
Activities**

Activities are directed toward standardization of the language and format of construction specifications, as well as format, organization, and coordination of the contents of the Project Manual for a construction project.

Publishes a Manual of Practice which provides techniques, procedures, and formats for the preparation and organization of construction documents. Included is MASTERFORMAT which was jointly issued with CSI's Canadian counterpart, Construction Specifications Canada. MASTERFORMAT provides a uniform system for organizing project cost data, and for filing product information and other technical data. The 16-Division concept presented in MASTERFORMAT has been adopted by government and private practices as a uniform approach for the organization of information contained in construction project manuals.

Produces SPECTEXT and SPECTEXT II through its research affiliate, The Construction Sciences Research Foundation (CSRF). SPECTEXT is a 440 section library of master guide specifications for construction projects prepared in accordance with CSI recommended practices. SPECTEXT II is for smaller, less complex projects. CSI has also developed a product information retrieval system (SPEC-DATA II) and an automated computerized system for specification text manipulation adaptable to all types of master specification programs.

**Availability**

Sold directly

**Keywords**

specifications; formats; construction documentation; construction; information processing;

**CONSUMER FEDERATION OF AMERICA**

Stephen Brobeck, Executive Director

1424 16th Street, NW  
Washington, DC 20036  
(202) 387-6121

Founded: 1968

**Type of  
Organization**

Consumer Advocacy Organization  
Works through other organizations to develop standards

**Representation**

ASTM Committee F-15  
Consumer Products FDA  
Cosmetic Ingredient Review

**Scope** Consumer membership organization composed of more than 200 national, state, and local groups committed to the goals of consumer advocacy and education. Advances pro-consumer policy before Congress, the Administration, regulatory agencies, and the courts; assists state and local consumer groups; and increases public and media awareness of consumer needs.

**Standardization Activities** Provides the consumer perspective for organizations which develop standards.

**Keywords** consumer advocacy; consumer products;

#### CONTAINERIZATION AND INTERMODAL INSTITUTE

Barbara Spector Yeninas, Executive Director

185 Fairfield Avenue  
Suite 2-D  
West Caldwell, New Jersey 07007  
(201) 226-0160 FAX: (201) 226-4274

Founded: 1960

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Scope** A membership trade association of shippers, carriage operators, terminal and port managers, and equipment manufacturers engaged in serving the containerization industry.

**Standardization Activities** Works through ISO and ANSI to develop standards. Works closely with the Transportation Association of America, Society of Packaging and Handling Engineers, Packaging Institute, Society of Automotive Engineers, and the National Defense Transportation Association.

**Formerly** Containerization Institute

**Keywords** containerization; intermodal transportation; cargo handling; transportation; packaging;

#### CONTRACTORS PUMP BUREAU

Walter D. Anderson, Executive Director

P.O. Box 5858  
Rockville, Maryland 20855  
(301) 340-2094

Founded: 1937



<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1937 12 members participating in standards activities Standards not processed through ANSI
<b>Standards Designation</b>	Contractors Pump Bureau standards
<b>Government Adoption</b>	These standards have been adopted by many state and local governmental agencies and by the U.S. Navy.
<b>Certification</b>	Certification is by the individual manufacturer who states that his products are manufactured in accordance with the standards of the Contractors Pump Bureau.
<b>Scope</b>	A national organization of manufacturers of pumps for use in the construction industry. Standards currently in use are the 15th revision adopted by the Bureau in July 1976.
<b>Standardization Activities</b>	Aimed toward the proper understanding and utilization and the various types of pumps used for construction. Assists users to determine the type and size of pump best suited for a specific job. Developed the Certified Performance Seal used by manufacturers. Does not test, inspect or certify pumps. Active standards self-priming centrifugal pumps, trash pumps, diaphragm pumps, and electrically driven submersible pumps.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	pump; construction; industrial equipment;

**CONVEYOR EQUIPMENT MANUFACTURERS ASSOCIATION**

Raymond J. Lloyd, Executive Vice President

932 Hungerford Drive  
Suite 36  
Rockville, Maryland 20850  
(301) 738-2448

Founded: 1933

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	18 active standards; works through ANSI

<b>Standards Designation</b>	CEMA and ANSI/CEMA prefixes
<b>Scope</b>	Manufacturers and engineers of conveyors and conveying systems, portable and stationary machinery used in transport of raw materials and finished products in warehouses and on assembly line operations.
<b>Standardization Activities</b>	Develops standards for design, manufacture, and application of conveying machinery and component parts. Activities administered by CEMA Product Sections and CEMA Engineering Conference. Member of the American National Standards Institute. Also works with other organizations, such as the American Society of Mechanical Engineers, and with federal government organizations including the Occupational Safety and Health Administration, Office of Standards, and the Bureau of Mines.
<b>Availability</b>	Sold directly and through ANSI
<b>Formerly</b>	Association of Conveyor and Material Preparation Equipment Manufacturers (1935) Conveyor Association (1945)
<b>Keywords</b>	conveyors; machinery; industrial equipment;

#### COOKWARE MANUFACTURERS ASSOCIATION

	Paul Uetzmann, Executive Vice President
	P.O. Box 1177 Lake Geneva, Wisconsin 53147 (414) 248-9208
	Founded: 1922                      Standards Staff: 1
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1963 23 members participating in standards activities 16 active standards All processed through ANSI Draft standards available for review
<b>Standards Designation</b>	CMA prefix
<b>Certification</b>	No certification, qualification, or accreditation programs

<b>Scope</b>	A national trade association that represents U.S. companies engaged in the manufacture of cookware, bakeware, and miscellaneous cooking accessories. Promotes the welfare of the cookware industry, improves services to the public, and carries out activities in furtherance of the industry consistent with the public interest.
<b>Standardization Activities</b>	Establishes voluntary standards for products manufactured within the industry. Standards are intended as guides to aid the manufacturer, user, and general public. Standards cover procedures for determining sizes and capacities, uniform terminology for finishes and decorations, specifications for plastic handles and knobs, safety and health guidelines, metal specifications, and metric guidelines. Standards activity is the responsibility of a Standards/ Engineering Committee represented by members of domestic cookware/bakeware manufacturers. ANSI Z61.1-1979 has adopted all CMA standards for metal cookware and bakeware.
<b>Availability</b>	Sold directly and through ANSI
<b>Formerly</b>	Aluminum Ware Association (1963) Metal Cookware Manufacturers Association (1981)
<b>Keywords</b>	cookware; bakeware; microwave; food; consumer products;

#### COOLING TOWER INSTITUTE

Dorothy Garrison, Administrative Manager

P.O. Box 73383  
Houston, Texas 77090  
(713) 350-1995

Founded: 1950

<b>Type of Organization</b>	Technical Society Standards Developer
<b>Standards Development</b>	Standards developer since 1950 270 members participate in standards activities 11 active standards None processed through ANSI
<b>Standards Designation</b>	STD - Standard ATC - Acceptance Test Code WMS - Wood Maintenance Standard NCL - Nomenclature



<b>Government Adoption</b>	Many government bids include CTI Standards as part of the specifications.
<b>Certification</b>	The Cooling Tower Institute may certify that a line of towers will perform in accordance with the manufacturers' published ratings.
<b>Scope</b>	A nonprofit, technical association dedicated to the improvement of technology, design, performance, and maintenance of cooling towers and cooling tower systems. Consists of manufacturers, users, and suppliers of equipment and chemicals, as well as engineering firms having an interest in cooling water related problems including water and air pollution. International membership.
<b>Standardization Activities</b>	The standards activities of the Cooling Tower Institute are accredited by ANSI and center on fulfilling user-defined requirement of the industry and its customers. There are 10 published standards including recommended grades, grading rules, and allowable design stresses for redwood lumber; methods and instrumentation for determining water cooling capability of mechanical draft towers; and recommended material, manufacturing limitations, design requirements and allowable loads for timber fasteners. The Institute is also active on standards committees of NACE, ASME, and others.
<b>Availability</b>	Sold directly and through IHS
<b>Keywords</b>	cooling; industrial equipment; water;

**COPPER DEVELOPMENT ASSOCIATION INC.**

Arthur Cohen, Manager Standards and Safety Engineering

P.O. Box 1840

Greenwich Office Park 2

Greenwich, Connecticut 06836

(203) 625-8232

Telex: 643784

FAX: (203) 625-0174

Founded: 1963

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Designation</b>	Standards Handbook
<b>Secretariats</b>	U.S. TAG for Copper and Copper Alloys

<b>Scope</b>	An engineering development and market research organization for the copper and brass industry; develops new markets for copper and copper alloys; creates new concepts; builds prototypes and proves commercial feasibility for new applications of copper, brass, and bronze. Provides technical support to users of copper and copper alloys.
<b>Standardization Activities</b>	Carries out standardization activities for brass mill and foundry products. Publishes the Standards Handbook which covers tolerances; alloy data, both wrought and cast; terminology; engineering data; sources; and a specifications cross index. Cooperates with ISO and Pan American Standards Commission (COPANT). Reviews federal and military standards. A Technical Service and Standards Advisory Committee coordinates publication activities and participation in voluntary standard organizations.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Copper and Brass Research Association
<b>Keywords</b>	copper; brass; bronze; materials;

**CORDAGE INSTITUTE**

G.P. Foster, Executive Director

42 North Street  
Hingham, Massachusetts 02043  
(617) 749-1016

Founded: 1920

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1924
<b>Scope</b>	Composed of rope and twine manufacturers in the United States, with some Canadian manufacturers and Cordemex of Mexico as special members. Promotes interests of the industry and improves its services to the public; compiles and distributes information; cooperates in handling problems common to the industry.
<b>Standardization Activities</b>	Maintains a Technical Committee which develops or participates in developing voluntary, consensus specifications for hard fiber and synthetic rope and twines. Works closely with the U.S. Army, U.S. Navy, the Maritime Administration, the Coast Guard, the

General Services Administration, and others. Works with the Defense Supply Agency (Defense Industrial Supply Center) in regard to military requirements. Cooperates with private organizations including American Merchant Marine Association (towing hawsers on ocean going vessels); American Society of Mechanical Engineers (sling Specifications); National Ski Area Association (rope tow and rescue rope specifications); New York City Fire Department (rescue ropes); public utility companies (specifications and test methods); National Fire Protection Association; and Oil Companies International Marine Forum.

Advises users, consumers and engineers on technical aspects of cordage, twines and ropes.

Ongoing projects include review of testing procedures for breaking strength standards, safety factors, updating of current DI specifications for ropes, chemical and temperature resistance of cordage fibers, resource or expert witness and testing laboratories, and development of standards for abrasion and wet tensile strength.

Participates in the activities of Technical Committee 38 - Textiles of the International Organization for Standardization (ISO), American Society for Testing and Materials (ASTM), Oil Companies International Marine Forum (OCIMF), National Fire Protection Association (NFPA).

Publishes technical data, including Quality Control-Minimum Standards; Specifications for Natural and Man-made Fiber Ropes; Standard Test Methods for Synthetic Fiber Ropes; Bend Tests Made on Natural and Synthetic Fiber Ropes; The Cordage Industry Directory; the Safe Use of Rope; Agricultural Twine Standards; Tying Twine standard; Cordage and Rope Definitions; Standard Terminations for Testing; and General Rope Usage.

**Availability**

Distributed directly

**Keywords**

rope; cordage; industrial equipment; twine; netting;

**CORN REFINERS ASSOCIATION**

Kyd D. Brenner, Director, Public Affairs

1100 Connecticut Avenue, NW  
Washington, DC 20036  
(202) 331-1634

Founded: 1913



<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Seven member companies active in a variety of standards organizations
<b>Secretariats</b>	U.S. TAG ISO/TC 93
<b>Scope</b>	Association for the U.S. corn wet milling industry. Provides services in the areas of research, public information, and government relations.
<b>Standardization Activities</b>	Cooperates with U.S. and international standards developing organizations. Maintains an Analytical Procedures Committee which develops and publishes Standard Analytical Methods of the Member Companies for use in analyzing industry products. Cooperates with analytical groups such as AOAC in this endeavor. Does not issue product standards or specifications, but cooperates with governmental bodies such as FDA, FCC, USDA, USP, and Food and Agriculture Organization/World Health Organization (FAO/WHO). This activity is coordinated by the Scientific and Applied Development Committee.
<b>Formerly</b>	Corn Industries Research Foundation (1966) Associated Corn Products Manufacturers (1932) American Manufacturer's Association of Products from Corn (1923)
<b>Keywords</b>	corn; corn products; corn starch; agriculture; food;

**CORPORATION FOR OPEN SYSTEMS INTERNATIONAL (COS)**

Lincoln D. Faurer, President

1750 Old Meadow Road  
Suite 400  
McLean, Virginia 22102  
(703) 883-2700

FAX: (703) 734-2975

Founded: 1986

Standards Staff: 5

<b>Type of Organization</b>	R & D Consortium Works through other organizations to develop standards
<b>Representation</b>	COS contributes to, observes, or interacts with all the Information Technology related standards bodies and all those organizations that relate to the IT standards bodies including ISO, CCITT, IEEE, ANSI, NIST, SPAG, POSI, OSI/NMF, X-OPEN, OSF and others.

<b>Scope</b>	COS is a research and development consortium funded by a coalition of computer and communications manufacturers, major commercial and industrial users of network systems, elements of the civilian and defense arms of the U.S. government and foreign government and commercial organizations. It includes the North American MAP/TOP Users Group and has numerous university, trade and user group association affiliates.
<b>Standardization and Activities</b>	COS selects and implements test suite specifications profiles based on international OSI/network/ISDN and related standards, contributes to the setting of conformance testing standards, and administers a product certification program - the COS MARK - which serves as a means of promoting high quality conformance and interoperability testing for OSI/ISDN products and services and is an indicator to prospective product purchasers of product interoperability. COS also works with users of open systems to promote the necessary requirements for enterprise, multi-vendor interoperability.
<b>Keywords</b>	OSI; open systems interconnection; ISDN; integrated services digital network; MAP; manufacturing automation protocol; TOP; technical and office protocol; interoperability; data communications; networking;

#### **COSMETIC, TOILETRY AND FRAGRANCE ASSOCIATION**

E. Edward Kavanaugh, President

1110 Vermont Avenue, NW  
Suite 800  
Washington, DC 20005  
(202) 331-1770

FAX: (202) 331-1969

Founded: 1894

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Developer of more than 300 specifications (voluntary standards) and 500 chemical descriptions since 1942 Development of standard nomenclature since 1972
<b>Government Adoption</b>	FDA recognizes the CTFA Cosmetic Ingredient Dictionary as the official nomenclature for ingredient labeling cosmetic products through 21 CFR S701.3.
<b>Scope</b>	A national trade association representing the cosmetic, toiletry, and fragrance industry. Active membership of 266 companies that manufacture or distribute 90% of the

finished cosmetic products marketed in the United States. Also, 278 associate member companies from related industries, such as manufacturers of cosmetic raw materials and packaging materials. Represents its membership internationally in a range of scientific and regulatory areas.

**Standardization  
Activities**

Specifications developed by a 25 member committee of analytical chemists representing both cosmetic manufacturers and suppliers. Has as its responsibility the publication of the CTFA Compendium of Cosmetic Ingredient Composition which includes specifications that chemically characterize and describe cosmetic ingredients, and test methods and spectra that correspond to these specifications; descriptions of raw materials are provided where specifications have not been developed. Specifications are strictly voluntary and designed to represent the type of ingredients used by the industry. The CTFA Compendium represents the largest collection of authentic specifications on cosmetic ingredients.

In compliance with Food and Drug Administration's regulations, the Association provides standard nomenclature for cosmetic raw materials. A twelve member committee develops this nomenclature.

**Availability**

Sold directly

**Formerly**

Toilet Goods Association (1935-1971)

**Keywords**

cosmetic ingredients; cosmetics; toiletry; fragrance; laboratory testing; materials; consumer products; personal care products;

**COTTON WAREHOUSE ASSOCIATION OF AMERICA**

Donald L. Wallace, Executive Vice President

1150 Connecticut Avenue, NW  
Suite 507  
Washington, DC 20036  
(202) 331-4337

Founded: 1969

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

Consists of cotton compress and cotton warehouse owners and operators in the cotton belt states from the Carolinas to California. Associate membership is available to industry-related businesses, such as



insurance companies, banks, equipment dealers, manufacturers, steamship and truck lines.

**Standardization  
Activities**

Maintains Special Committees on Bale Preparation, Insurance and Standards, and Research and Engineering, which work closely with U.S. manufacturers of cotton bale ties and buckles, with a view to improving their quality, strength, and reliability. Resulting standards, widely used since 1956, cover width of ties, thickness of ties, minimum elongation of ties under stress, flatness of ties, weight and minimum tensile breaking strength of both ties and buckles.

**Availability**

Distributed directly

**Formerly**

Merger of the American and the National Cotton Compress and Cotton Warehouse Associations (1969)

**Keywords**

cotton; materials;

**COUNCIL OF AMERICAN BUILDING OFFICIALS**

Richard P. Kuchnicki, President

5203 Leesburg Pike, Suite 708  
Falls Church, Virginia 22041  
(703) 931-4533

Founded: 1972

**Type of  
Organization**

Model Code Organization Standards Developer

**Secretariat**

ANSI A117.1, American National Standard for Building and Facilities--Providing Accessibility and Usability for Physically Handicapped People

**Scope**

CABO is a consortium of model building code organizations:

Building Officials & Code Administration  
International, International Conference of Building  
Officials and the Southern Building Code Congress  
International

**Standardization  
Activities**

The members of CABO are the three model building code organizations. Through CABO they coordinate development of their respective codes, and cooperate with other organizations and the federal government. CABO itself has been used as a vehicle for the development of the One and Two Family Dwelling Code and the Model Energy Code, which, in turn, is based on the

ASHRAE standard for energy conservation in new building design. It has also developed the CABO Manufactured Home Construction and Safety Standards.

**Keywords**

safety; building; codes; energy conservation;  
construction; accessibility; government officials;

**CULTURED MARBLE INSTITUTE**

Edward L. Kawala, P.E., Executive Director

435 North Michigan Avenue  
Suite 1717  
Chicago, Illinois 60611  
(312) 644-0828                      Telex: 701633

Founded: 1974

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Designation**

ANSI Z124.x

**Government  
Adoption**

All major code bodies and most state codes reference the Z124 Standards.

**Certification**

CMI administers a Certification Program for cultured marble lavatories, shower receptors and bathtubs utilizing third party independent testing laboratories.

**Scope**

Represents manufacturers of cultured marble products such as lavatories, bathtubs, shower receptors, water closets and flat stocks. Focuses on improving the quality of cultured marble in the marketplace and increasing market penetration of members' products.

**Standardization  
Activities**

Represented on ANSI Z124 Committee that is responsible for standards covering bath tubs (Z124.1), shower pans (Z124.2), lavatories (Z124.3), water closets (Z124.4), and kitchen and bar sinks (Z124.6).

**Availability**

Distributed through ANSI

**Keywords**

cultured marble; plumbing fixtures; building;  
materials;

## DAIRY AND FOOD INDUSTRIES SUPPLY ASSOCIATION

Thomas M. Gilmore, Ph.D., Technical Director

6245 Executive Boulevard  
Rockville, Maryland 20852  
(301) 984-1444

Telex: 908706  
FAX: (301) 881-7832

Founded: 1912

Standards Staff: 2

### **Type of Organization**

Trade Association  
Standards Developer

### **Standards Development**

Standards developed since 1944  
Members and non-members cooperate in standards  
development  
69 3-A Sanitary Standards; and 10 3-A Accepted  
Practices  
None processed through ANSI

### **Standards Designation**

3-A Sanitary Standards; 3-A Accepted Practices

### **Government Adoption**

Cited in recommended Grade "A" Pasteurized Milk  
Ordinance of U.S. Public Health Service  
Cited in U.S. Department of Agriculture plant  
regulations  
Accepted by state and local public health and  
agriculture agencies throughout United States  
Under review for adoption by Department of Defense

### **Certification**

Equipment complying with the standards may carry 3-A  
symbol, contingent upon authorization from the 3-A  
Symbol Council.

### **Scope**

DFISA represents the manufacturers of supplies and  
equipment for the dairy industry.

### **Standardization Activities**

DFISA cosponsors the 3-A Sanitary Standards program  
with other dairy and egg processor trade associations;  
houses the secretary of the program and coordinates the  
work of 48 specific task committees which develop the  
standards. Implements standards activity through the  
DFISA Technical Committee and 48 working task  
committees, comprise of DFISA members and non-members  
DFISA sponsors the 3-A Sanitary Standards program for  
dairy equipment and the E-3-A Sanitary Standards for  
egg processing equipment. Cooperates with local, state  
and federal agencies, equipment manufacturers and  
distributors, and public health officials in developing  
3-A Sanitary Standards.



**Availability** Published in Diary of Food and Environmental Sanitation  
Distributed by International Association of Milk, Food,  
and Environmental Sanitarians (IAMFES), P.O. Box 701,  
Ames, Iowa, 50010 (515) 232-6699 or (800) 525-5223

**Keywords** egg; dairy; equipment; food; cleanability;

**DATA PROCESSING MANAGEMENT ASSOCIATION**

Brian Kenedy, Executive Director

505 Busse Highway  
Park Ridge, Illinois 60068  
(708) 825-8124

Founded: 1951

**Type of Organization** Professional Society  
Works through other organizations to develop standards

**Representation** ANSI X3

**Scope** National and international organization of 33,000  
members engaged in data processing, systems  
development, and use and management of computers and  
related equipment.

**Standardization Activities** Participates in standards development in the data  
standardization field through its membership and active  
representation on the American National Standards  
Committee X3 on Computers and Information Processing.  
Encourages and publicizes efforts toward the  
development of standards in data processing equipment,  
terminology, data codes, analysis, documentation, and  
computer programming languages through its quarterly  
publication Information Executive. Solicits review and  
comment by its members on proposed standards.

**Formerly** National Machine Accountants Association (1951-1962)

**Keywords** data processing; information management; computers;

**DECORATIVE LAMINATE PRODUCTS ASSOCIATION**

Barbara Boden, Executive Director

600 South Federal Street, Suite 400  
Chicago, Illinois 60605  
(312) 922-6222 FAX: (312) 922-2734

**Type of Organization** Trade Association  
Works through other organizations to develop standards

<b>Certification</b>	Product quality control according to ANSI A161.2-1979 (R1987); 17 companies participate
<b>Scope</b>	Manufacturers (fabricators) of decorative plastic laminated and solid surface material products for residential and commercial uses. Products include countertops, work surfaces, wall paneling, partitions, cabinets and cabinet doors, institutional case goods, furniture and furniture components.
<b>Standardization Activities</b>	Participates in maintenance and compliance with ANSI standards A161.2-1979 (R1987) for high pressure decorative laminate countertops used in home kitchens and baths and commercial establishments.
<b>Formerly</b>	National Association of Plastic Fabricators
<b>Keywords</b>	countertops; laminates; solid surface materials; adhesives; woodworking machinery; buildings;

#### **DEEP FOUNDATIONS INSTITUTE**

G. Robert Compton Jr., Executive Director

P.O. Box 281

Sparta, New Jersey 07871

(201) 729-9679

FAX: (201) 729-0732

Founded: 1976

<b>Type of Organization</b>	Technical Society Standards Developer
<b>Representation</b>	Representatives on standards committees of ADSC, ANSI, ASCE, ASTM, BOCA, DFCIR, SBC, UBC, USDOD, among others
<b>Scope</b>	An international association of persons and organizations personally involved with the planning, investigations for, design, and construction of deep foundations and the protection of deep excavations.
<b>Standardization Activities</b>	Focuses on standards and codes concerned with the investigations, installation, materials, and equipment used for deep foundations. In its material and publications, references all of the appropriate codes and standards adopted by internationally recognized consensus standards producing organizations.
<b>Keywords</b>	caisson; construction; drilled shaft; foundations; inspections; sheet pile; slurry walls; soil;

## DENTAL MANUFACTURERS OF AMERICA

Edward B. Shils, Executive Director

1118 Land Title Building  
Philadelphia, Pennsylvania 19110  
(215) 563-2588 FAX: (215) 561-3267

Founded: 1932

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	American Dental Association, the International Dental Federation, American National Standards Institute, the Food & Drug Administration, and other specialized organizations which develop standards and specifications for dental equipment and dental supplies.
<b>Scope</b>	A trade organization of dental manufacturers; represents 170 U.S. companies engaged in research, development, and manufacture of dental equipment and dental supplies. Represents its membership in areas such as technology, government relations, exports, and industry activities.
<b>Standardization Activities</b>	Maintains Technology Committee which works with the FDA, the Defense Department, the National Institute of Standards and Technology and other government agencies, as well as with the American Dental Association, in their development of standards, guidelines, certification, and acceptance programs on various dental products. Develops manufacturing practices manuals.
<b>Keywords</b>	dental supplies; dental equipment; medical equipment;

## DFA OF CALIFORNIA

Frank A. Mosebar, President

P.O. Box 270-A  
303 Brokaw  
Santa Clara, California 95052

Founded: 1908

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1909



<b>Standards Designation</b>	DFA Dried Fruit and Tree Nut Grades and Specifications
<b>Certification</b>	DFA of California Certificate of Quality is issued for shipments meeting industry requirements and grades for superior quality. Certificates issued as a result of this type of inspection have achieved worldwide acceptance and establish a prime focal evidence of a "delivery" by the shipper.
<b>Secretariats</b>	U.S. Technical Advisory Group for ISO/TC 34 - Subcommittee 13, Dried Fruit ECE, Group of Experts on dry and dried fruit
<b>Scope</b>	An association of California's dried fruit and tree nut processors handling 95% of California's annual one billion dollar dried fruit and tree nut production.
<b>Standardization Activities</b>	Establishes grade standards for dried fruits and tree nuts considered national in scope. These define defects and certain quality standards as set forth in USDA grades and industry specifications. Standards comply with both the domestic and foreign need to know that goods shipped comply with contract descriptions. Standards developed encompass industry specifications for dried fruit and tree nuts produced in California. Also acts as the research agency in developing such standards as may be required for new products developed in the dried fruit industry. Cooperates with foreign governments and submits food additives petitions used in the dried fruit and tree nut industries.  Services include prune, walnut, and fig inspections as required by federal or state marketing orders governing these products, inspections of the majority of dried apples, cut fruits, and pistachio nuts produced in California under private contract.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Dried Fruit Association of California
<b>Keywords</b>	dried fruit; tree nuts; agriculture; food;

#### **DIAMOND WALNUT GROWERS**

Gerald L. Barton, President

1050 South Diamond Street

P.O. Box 1727

Stockton, California 95201

(209) 467-6000

FAX: (209) 467-6250

Founded: 1912

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	80 domestic, 6 Canadian, 44 foreign, 129 special customer standards
<b>Certification</b>	DWGI employs a Quality Control Department and the services of DFA of California to certify products during processing and at time of shipment.
<b>Scope</b>	A nonprofit cooperative association owned by 2,200 walnut growers who produce 48 percent of the walnuts grown in the State of California.
<b>Standardization Activities</b>	<p>Develops standards for shelled walnuts with all statements of maximum restraints and definitions concerning size, color, and defective kernels from U.S. Standards for Shelled Walnuts (<i>Juglans regia</i>), 23 F.R. 10354, January 25, 1959, and Department of Agriculture, Consumer and Marketing Service Walnut Color Chart of 1967, except where superseded by the Code of Federal Regulations, Title 21, Section 128.10, March 30, 1972, or other applicable sections. Established four color and five size standards for unshelled walnuts with all statements of tolerance and definitions concerning size, color, and grade defects from U.S. Standards for Grades of Walnuts (<i>Juglans regia</i>) in the Shell, 29 F.R. 12865, September 12, 1964, as amended September 1, 1968, 33 F.R. 10840.</p> <p>Standards are national in scope and DWGI markets under the Agricultural Marketing Agreement Act of 1937, as amended, with administration by the Walnut Marketing Board in Sacramento. DWGI's involvement with other governmental agencies also includes the Department of Agriculture, Fruit and Vegetable Division; Food and Drug Administration; state food and drug administrations; Economic Research Service; Foreign Agricultural Service; and the Department of Commerce.</p> <p>Standards promoted through 88 domestic and 33 foreign brokers.</p>
<b>Availability</b>	Distributed directly
<b>Formerly</b>	California Walnut Growers' Association (1956)
<b>Keywords</b>	walnuts; edible nuts; agriculture; food;

## DIAMOND WHEEL MANUFACTURERS INSTITUTE

Allen P. Wherry, Manager

30200 Detroit Road  
Cleveland, Ohio 44145  
(216) 899-0010

Telex: 98-5559  
FAX: (216) 892-1404

Founded: 1963

Standards Staff: 3

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

4 active standards  
ANSI approved

**Standards  
Designations**

ANSI B74.x

**Scope**

Manufacturers of grinding wheels and blades in which diamonds are the abrasive used.

**Standardization  
Activities**

The Standards and Safety Committee has developed standards for shapes and sizes of diamond grinding wheels and hand hones, size and density of diamond abrasive grain, and an identification code for diamond wheel shapes. These have been processed through ANSI. Also cooperates with ISO/TC 29/WG 5 on international standards.

**Availability**

Directly and through ANSI

**Keywords**

grinding wheels; diamond abrasives; manufacturing;

## DISTILLED SPIRITS COUNCIL OF THE UNITED STATES

F. A. Meister, President/CEO

1250 Eye Street, NW  
Washington, DC 20005  
(202) 628-3544

Founded: 1973

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Scope**

Represents producers and importers of beverage distilled spirits.

**Standardization  
Activities**

Through its standing committees of technical experts from member companies, develops recommended guidelines



pertinent to the industry. Initiates studies, as needs are foreseen or dictated by developments in the regulatory and/or private sectors. Cooperates with federal agencies and other groups. Projects include plant fire protection recommendations and metric size standards, both domestic and international.

**Formerly** Distilled Spirits Institute  
The Bourbon Institute  
Licensed Beverage Industries

**Keywords** alcoholic beverages; distilled spirits; metric; fire protection;

#### DOOR AND HARDWARE INSTITUTE

Richard Hornaday, Executive Vice President

7711 Old Springhouse Road  
McLean, Virginia 22102  
(703) 556-3990

Founded: 1934                      Standards Staff: 2

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** 17 active standards  
Standards processed through ANSI  
Draft standards available for review  
Invitation to review announced through ANSI

**Government Adoption** "A115" Series for steel and wood doors has been adopted by VA, GSA, and DoD.

**Scope** Wholesalers and specifiers distributing doors and builders' hardware to architects, contractors, and builders. Conducts management and technical courses and statistical surveys. Sponsors technical research and establishes standards.

**Standardization Activities** Formulates standard specifications for preparation of standard steel doors and frames for builders' hardware. Works closely with BHMA, NAAMM, ISDSI, NWWDA and SDI in developing standards. Solicits technical input from all affected interests, including government and industry organizations.

**Availability** Distributed directly and through ANSI

**Formerly** National Builders Hardware Association

**Keywords** doors; architectural hardware; building;

## DOOR OPERATOR AND REMOTE CONTROLS MANUFACTURERS ASSOCIATION

Frank S. Fitzgerald, Executive Secretary

Suite 201  
655 West Irving Park  
Chicago, Illinois 60613-6198  
(312) 525-2644

Founded: 1959

Standards Staff: 1

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Scope**

A national trade association comprised of manufacturers of vehicular door operators -- residential, commercial, or industrial -- and/or remote controls for the operation.

**Standardization  
Activities**

Maintains a technical committee which developed a Minimum Standard for Heavy Duty Industrial and Commercial Draw Bar Type Electrically Powered Door Operators. It no longer develops standards but cooperates with Underwriters Laboratories in its development of UL 325, Standard for Safety for Door, Drapery, Gate, and Window Operators and Systems. Also cooperates with the Federal Communications Commission regarding the rules and equipment authorization procedures of radio frequency devices. Cooperates with the Consumer Products Safety Commission and the National Safety Council on the safe use of the equipment.

**Keywords**

doors; remote control; hardware; buildings;

## DUCTILE IRON PIPE RESEARCH ASSOCIATION

Troy F. Stroud, P.E., President

245 Riverchase Parkway East  
Suite 0  
Birmingham, Alabama 35244  
(205) 988-9870

Founded: 1915

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

Three members active in voluntary standards including representatives on standards committees of ANSI, ASTM, AWWA, ASME, NFPA, and others.

<b>Scope</b>	American manufacturers of ductile iron pipe, dedicated to maintaining the highest piping standards through a program of continuing research. Ductile iron pipe is used extensively for water and wastewater applications.
<b>Standardization Activities</b>	Participates in national committees that develop product standards pertaining to ductile iron pipe, including standards for manufacture, design, installation, joints, coatings, linings, fittings, and other appurtenances. Utilities and consulting engineers frequently incorporate these standards in purchase orders and contract specifications. Members also provide standards committees with research and test data concerning their products.
<b>Formerly</b>	Cast Iron Pipe Publicity Bureau (late-1920's) Cast Iron Pipe Research Association (1979)
<b>Keywords</b>	pipe; fittings; water; wastewater; plumbing; sanitation; industrial equipment;

#### EASTERN BIRD BANDING ASSOCIATION

H.B. Suthers, Past President

4 View Point Drive  
Hopewell, New Jersey 08525

Founded: 1923

<b>Type of Organization</b>	Professional Society Standards Developer
<b>Scope</b>	Provides consultation services to professional and amateur ornithologists who are active and licensed by the Fish and Wildlife Service to engage in banding and marking activities of birds protected by the Bird Treaty Acts. Publishes a quarterly magazine dealing with bird banding and related activities and research data, new methods, and field techniques. Membership numbers 725.
<b>Standardization Activities</b>	Standardizes field methods which further aid work done by appropriate governmental agencies in the collection of field data and statistics of bird populations, bird migration, breeding studies, and similar projects involving marking and banding of birds as a means of gathering these data. Cooperates extensively with the U.S. Department of Interior's Fish and Wildlife Service.





developing standards they can apply. These include standards for electric power generation and transmission equipment such as boilers, all types of turbines, transformers, circuit breakers, valves and nuclear; all aspects of radiation measurement and protection; and standards for safety, air and water quality, computers, and many others.

Although the Institute is not a standards developing organization, it works within the voluntary standards system to coordinate electric utility industry standards activities and act as the industry voice. Its Engineering, Operating & Standards Executive Advisory Committee has overall responsibility for directing all EEI activities relating to codes and standards. It recommends policy to the EEI Board in regard to participation in standards development work within the voluntary consensus organizations and coordination with government agencies which develop or reference standards in the regulatory process.

The Standards Coordinating Task Force (SCTF) coordinates high priority standards activities of interest to the industry and provides relevant information to member companies. A formal program of interfacing directly with standards developing organizations such as ANSI, IEEE, ASME, NFPA, and ASTM includes a procedure for monitoring and coordinating international standards activities. There are two Task Forces that closely monitor and participate in the NESC and NEC triennial revisions of both Codes.

The SCTF also monitors and coordinates participation in the development of metrication programs within the electric utility industry and monitors activities of the American National Metric Council.

In addition to these committees specifically tasked to monitor and coordinate broad issues and subjects, each EEI technical committee is responsible for monitoring the work of standards-developing committees in their subject area. The technical committees accomplish this through a Codes and Standards Subcommittee which, in cooperation with the Association of Edison Electric Illuminating Companies, advises the Electric Light and Power representatives on standards committees of the industry's position on proposed standards. Each EEI member company is given the opportunity to assign a Senior Engineering Executive who is made aware of standards activities and issues through an EEI Engineering, Operating & Standards newsletter and special reports.

**Keywords** energy; electric power; electrical equipment; nuclear; metric;

**ELASTIC FABRIC MANUFACTURERS COUNCIL OF NORTHERN TEXTILE ASSOCIATION**

Karl Spilhaus, President

230 Congress Street  
Boston, Massachusetts 02110  
(617) 542-8220

Founded: 1953

**Type of Organization** Trade Association  
Standards Developer

**Standards Designations** NTA-EC prefix

**Scope** Represents over three quarters of the elastic fabrics industry of the United States. Became part of Northern Textile Association in 1970.

**Standardization Activities** Actively engaged in the establishment, review, revision, and promulgation of standard test methods, performance standards, and specifications for standard types of knitted, woven and braided elastic fabrics and nonelastic braided trimming. Current standards include: Woven Waistband Elastic Minimum Performance Standard/A Performance Standard for Webbing Used in Men's and Boys' Underwear and Pajamas; Methods of Testing Wide Elastic Fabrics-Tension and Stretch, NTA-EC-1-71.

In addition to counseling engineering societies such as the American Society for Testing and Materials and federal agencies, the EFMC's Technical Committee is a source for interlaboratory testing and test methods, review of product characteristics, and the development of suggested tolerances and specifications.

**Availability** Distributed directly

**Formerly** Elastic Fabric Manufacturers Institute (1970)

**Keywords** textiles; fabrics; braids; trim; webbing; elastic;



## ELECTRICAL APPARATUS SERVICE ASSOCIATION

August A. Baechle, Executive Vice President

1331 Baur Boulevard  
St. Louis, Missouri 63132  
(314) 993-2220

Telex: 955329 TLX, SRVC;  
ATTN: EASA

FAX: (314) 993-1269  
Standards Staff: 2

Founded: 1933

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

An international trade association of companies that sell, service, and repair industrial electric motors, generators, transformers, controls, and similar electro-mechanical equipment. Over 2,700 members worldwide.

**Standardization  
Activities**

Develops standards and limited warranties for the electrical apparatus sales and service industry that cover the mechanical and electrical aspects of repair, rebuilding, and testing electro-mechanical equipment. This includes single and polyphase AC induction motors, DC motors and generators, transformers (liquid and dry types), hermetic motors, and hand power tools. Also defines the condition of electrical equipment for sale, and has written standard warranties for each condition specified. Developed set of electrical safety standards.

**Availability**

Distributed directly

**Formerly**

National Industrial Service Association (1960)

**Keywords**

electrical equipment; electric motors; generators; machinery;

## ELECTRICAL GENERATING SYSTEMS ASSOCIATION

Anthony Raucci, Executive Director

Box 9257  
Coral Springs, Florida 33065  
(305) 755-2677

Founded: 1963

**Type of  
Organization**

Trade Association  
Standards Developer

<b>Scope</b>	An international industry organization representing manufacturers and distributors involved with the generation, transmission, storage, and control of electrical energy not directly supplied by the public utility companies.
<b>Standardization Activities</b>	Maintains a cooperative standards program for developing and promulgating standards and specifications to serve the industry and its customers; provides an effective liaison between the industry and its customers, both civilian and military, for the interchange of information and ideas; and assists its customers in obtaining the most advanced and reliable products and scientific developments from the industry.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Engine Generator Set Manufacturers Association (1971) Electrical Generating Systems Marketing Association
<b>Keywords</b>	electrical generators; electrical power; energy; electrical equipment;

#### **ELECTRONIC DATA INTERCHANGE ASSOCIATION**

	Jerome L. Dreyer, President and CEO
	225 Reinekers Lane, Suite 550 Alexandria, Virginia 22314 (703) 838-8042
	Founded: 1968                      Standards Staff: 24
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Has developed 170 industry specific electronic data interchange (EDI) standards for computer-to-computer intercompany business transactions.
<b>Standards Designation</b>	EDI prefix
<b>Secretariats</b>	Industry-specific EDI groups (AIR, OCEAN, MOTOR, RAIL, CHEMICAL)
<b>Scope</b>	A public interest association with membership open to those companies interested in modernizing and automating business systems through the use of computer and communications technology.
<b>Standardization Activities</b>	A national center for the coordination of intercompany standards for the electronic transmission and receipt

of over 170 different business transaction sets used in electronic data interchange (EDI). Develops EDI standards which are used as the baseline standards for computer-to-computer data interchange in the rail, motor, ocean, and chemical industries, including claims, filing and other business applications. Maintains liaison on the development of data standards with industry and government standards bodies, including the United Nations Economic Commission for Europe.

**Availability** Sold directly

**Keywords** data processing; business; communications;

#### ELECTRONIC INDUSTRIES ASSOCIATION

John M. Kinn, Vice President, Engineering Department

2001 Eye Street, NW  
Washington, DC 20006  
(202) 457-4961

Telex: 710-822-0148

Founded: 1924

Standards Staff: 17

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1926  
3000 member representatives participate in standards activities through 750 committees, subcommittees and task groups  
Majority of EIA standards processed through ANSI  
Draft standards available for review

**Standards  
Designation**

EIA and JEDEC prefixes

**Government  
Adoption**

The Department of Defense adopts EIA standards applicable to their needs.

**Certification**

EIA is the National Standards Organization (NSO) which is responsible for the IECQ-System certification process within the United States

**Secretariats**

IEC 12F, 46, 46E, 48, 48B, 48C.

**Scope**

A national trade association of companies involved in the manufacture of electronic components, equipment, and systems for consumer, industrial, and government applications. They represent their members in national and international areas of interest.



<b>Standardization Activities</b>	Involved in standardizing components such as resistors, capacitors, switches, transformers, inductors, transistors, and integrated circuits; television tubes, broadcast equipment, data transmission, numerical control, printed circuits, radios, phonographs, satellite communications, and tape systems. Processes standards through ANSI and the IEC. Standards are in use throughout the world either by direct application or by adoption as an international standard. Engineering standards are designed to eliminate misunderstanding between manufacturers and purchasers, facilitate interchangeability and improvement of products, and assist the purchaser in selecting and obtaining with minimum delay the proper product for his particular need.
<b>Availability</b>	Distributed through Electrical and Electronic Manufacturing Association of Canada, IHS, Global, DECO, NSA, and American Technical Publishers, Ltd.
<b>Formerly</b>	Radio Manufacturers Association (1958) Radio-Electronics-Television Manufacturers Association (1957) Absorbed: Magnetic Recording Industry Association
<b>Keywords</b>	telecommunications; electronics; industrial equipment; electrical equipment; defense; consumer products; data processing;

#### **ELECTRONIC MEDIA RATING COUNCIL**

	Melvin A. Goldberg, Executive Director
	509 Madison Avenue New York, New York 10022 (212) 754-3343
	Founded: 1963                      Standards Staff: 1
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Scope</b>	The Electronic Media Rating Council is responsible for determining criteria and standards for audience measurement services; establishing and administering a system of accreditation for audience measurement services; providing and administering an audit system designed to insure users that audience measurements are conducted in conformance with the criteria, standards and procedures developed.
<b>Standardization Activities</b>	The Rating Council is made up of representatives of TV and radio networks, broadcast groups and industry

associations representing cable, radio, television, advertising agencies and advertisers. The Council sets the minimum standards which rating services are expected to meet to merit accreditation. The standards involve such items as ethical and operational standards (governing the quality and integrity of the entire activity) and disclosure standards (specifying the detailed information about a rating service which must be made available to users, as well as the form in which the information should be made available.

**Formerly** Broadcast Rating Council (1982)

**Keywords** audience measurement; ratings; radio; television; cable; audit; accreditation; communications;

#### ENTOMOLOGICAL SOCIETY OF AMERICA

Raymond L. Everngam, Jr., Managing Editor

9301 Annapolis Road  
Lanham, Maryland 20706-3115  
(301) 731-4535

Founded: 1889

**Type of Organization** Scientific Society  
Standards Developer

**Standards Designation** Approved Common Names of Insects

**Scope** Professional society of entomologists and others interested in the study and control of insects. Maintains specialized education, placement service, and research programs. Compiles statistics.

**Standardization Activities** Committees work to standardize and define common and scientific names of insects and related arthropods, as well as insecticide names.

**Availability** Distributed directly

**Keywords** insects; entomology; insecticides; pesticides; public health; materials;

#### EQUIPMENT AND TOOL INSTITUTE

Donn R. Proven, Executive Manager

1545 Waukegan Road  
Glenview, Illinois 60025  
(708) 729-8550

Founded: 1947

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

Manufacturers of automotive service equipment and tools.

**Standardization  
Activities**

Prepares test equipment performance guidelines. Maintains the Performance Test Group which communicates with vehicle manufacturers to insure equipment compatibility and with federal and state agencies to insure equipment complies with performance regulations. Publishes guidelines which provide performance criteria that can be used to characterize service equipment as being of a professional grade for the automotive technician. Equipment includes voltmeters, ohmmeters, brake testing equipment, wheel alignment, headlamp testers, timing devices, gauges, exhaust emission analyzers, and others.

**Availability**

Distributed directly

**Keywords**

automotive equipment; instruments;

**EQUIPMENT MANUFACTURERS INSTITUTE**

John Crowley, Director of Engineering & Safety Programs

10 Riverside Plaza, Suite 1220

Chicago, Illinois 60606-3710

(312) 321-1470

FAX: (312) 321-1480

Founded: 1893

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

ASAE, SAE, ANSI

**Scope**

Provides an ongoing forum for manufacturers of farm construction and industrial equipment to work together to have an effective voice in decisions affecting their products, their companies, their industries, and the economic well-being of their customers.

**Standardization  
Activities**

EMI is not a standards development organization. Committees of the Institute utilize industry expertise to develop proposals which are submitted to engineering standards organizations for consideration as possible voluntary standards. Almost all EMI standards proposals are submitted to the American Society of Agricultural Engineers, the Society of



Automotive Engineers, and (indirectly) to the American National Standards Institute and the International Organization for Standardization.

**Formerly** National Association of Agricultural Implement and Vehicle Manufacturers  
National Association of Farm Equipment Manufacturers (1933)  
Farm Equipment Institute (1965)  
Farm and Industrial Equipment Institute (1990)

**Keywords** farm equipment; agricultural equipment; industrial equipment; construction equipment; agriculture; construction;

### ETL TESTING LABORATORIES

James W. Tucker, Chairman and CEO

Industrial Park  
Post Office Box 2040  
Cortland, New York 13045  
(607) 753-6711

Founded: 1896

**Type of Organization** Product Test and Certification Laboratory  
Standards Developer

**Certification** Approximately 40 percent of ETL's activity is in the field of product certification where it conducts performance tests on a wide range of products. These tests are conducted according to industry standards which are national in scope. Directories are published periodically showing products such as air conditioning equipment, gas appliances, builders hardware, fluorescent ballasts, refrigerators and freezers, and carpeting that meet the requirements for the appropriate certification program.

ETL's certification programs are recognized and used by federal agencies such as General Services Administration (GSA), Department of Housing and Urban Development (HUD), Occupational Safety and Health Administration (OSHA), and Department of Veterans Affairs (VA).

**Scope** An independent, employee-owned testing, inspection, certification and safety labeling agency. A multi-disciplined organization, ETL presently operates within eleven disciplines: Acoustical, Air Conditioning and Refrigeration, Carpet, Design Services, Electrical,

Heating, Mechanical, Photometric, Quality Control, Glazing, and Safety.

**Standardization  
Activities**

Develops testing and certification procedures for standards through experimental testing to determine appropriate test methods. In addition, members of ETL's professional staff are active participants in standards committees sponsored by ANSI, ASHRAE, IEC, NEMA, NFPA, SAE, IEEE, and IES among others.

ETL is also an independent third party testing laboratory providing safety testing to nationally recognized standards such as UL, ANSI, and IEC. ETL's labeling, listing and follow-up program has been accepted by all 50 states, military branches, and the building code agencies for the testing and labeling of electrical and gas or oil-fired products. In addition, ETL has been designated as a Nationally Recognized Testing Laboratory by the Occupational Safety and Health Administration.

**Formerly**

Electrical Testing Laboratories, Inc.

**Keywords**

testing; consumer products; electrical equipment; fire and flammability; acoustics; air conditioning; photometrics; safety testing and listing;

**EXCHANGE CARRIERS STANDARDS ASSOCIATION**

O.J. Gusella, Executive Director

5430 Grosvenor Lane  
Bethesda, Maryland 20814  
(301) 564-4505

Founded: 1983

**Type of  
Organization**

Trade Association  
Standards Developer

**Representation**

Represents exchange carrier interests on ANSI accredited committees and standards boards and other organizations.

**Secretariat**

To Accredited Standard Committee T1 - Telecommunications; ASC .05 Wood Poles and Wood Products; the Carrier Liaison Committee; the Information Industry Liaison Committee; and the Telecommunications Industry Forum.

**Scope**

A private, voluntary association of the exchange carrier industry which addresses technical standards

and related areas regarding the public telephone network.

**Standardization  
Activities**

Represents exchange carrier interests in all standards and related technical fields, and provides the sponsoring organization and secretariat for an independent interconnection and interoperability standards committee (T1). Open to all parties interested in the formulation of such standards. These parties include exchange and interexchange carriers, manufacturers, enhanced service providers, user groups, professional associations, and government agencies.

**Formerly**

The Telephone Group

**Keywords**

telephone network; carrier interconnection; communications;

**EXPANDED SHALE, CLAY AND SLATE INSTITUTE**

John P. Ries, Managing Director

Post Office Box 21526  
Salt Lake City, Utah 84121

Founded: 1952

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

A nonprofit technical organization supported by producers of expanded shale, clay, and slate using the rotary kiln process. Objectives are improving and extending the uses of expanded shale aggregate through research and development; disseminating data to the architectural and engineering professions and to the construction industry; cooperation and collaboration with other technical organizations interested and active in the field of concrete; and maintenance of standards for uniformly high product quality.

**Standardization  
Activities**

Active in ASTM, ACI, CSI, and ASCE in promulgating building codes, test methods, recommended practices, specifications, and standards for structural lightweight concrete, lightweight concrete masonry, and/or lightweight aggregates.

Publishes Guide Specifications for Structural Lightweight Concrete. Members' products meet requirements of Standard Specification for Lightweight Aggregates for Structural Concrete, ASTM C330.

**Availability**

Distributed directly or through members



**Formerly** Expanded Shale Institute (1952)  
**Keywords** concrete; masonry; aggregates; construction; materials;

**EXPANSION JOINT MANUFACTURERS ASSOCIATION**

Richard C. Byrne, Secretary  
25 North Broadway  
Tarrytown, New York 10591  
(914) 332-0040  
Founded: 1955  
**Type of Organization** Trade Association  
Standards Developer  
**Scope** Manufacturers of joints for piping systems. Fosters and studies the problems peculiar to expansion joints.  
**Standardization Activities** Through its Technical Committee, engages in the improvement of standards which were developed in the interest of public safety and for guidance in design and determination of service capacities and quality of bellows expansion joints.  
**Keywords** expansion joints; industrial equipment;

**FACTORY MUTUAL RESEARCH CORPORATION**

Carl E. Miller, Senior Vice President and  
Chief Operating Officer  
1151 Boston-Providence Turnpike  
Post Office Box 9102  
Norwood, Massachusetts 02062  
(617) 762-4300 Telex: 92-4415  
FAX: (617) 762-9375  
Founded: 1835 Standards Staff: 184  
**Type of Organization** Product Test and Certification Laboratory  
Standards Developer  
**Representation** FMRC engineers participate in standards committees of the NFPA, ASME, ASTM, AWWA, IEEE, ISA, ANSI, ISO, and IEC.  
**Standards Designation** Data Sheets, Loss Prevention Data, D.S. prefix  
Approval Standards

<b>Government Adoption</b>	Certain FMRC standards are referenced in codes and regulations of various local, state, and federal agencies. OSHA has designated FMRC as a test agency for certain types of equipment requiring approval.
<b>Certification</b>	Operates an approval service for a wide range of fire protection and property loss control products. In addition, the approvals staff evaluates products to certify that they meet certain standards of other organizations (e.g. ASTM).
<b>Scope</b>	A nonprofit corporation, providing loss control standards development, basic research, applied research, and full-scale testing primarily for industrial, commercial, and institutional policyholders insured by Allendale Mutual, Arkwright, and Protection Mutual. Maintains full-scale testing laboratories and modeling techniques.
<b>Standardization Activities</b>	<p>Prepares loss prevention data sheets based on staff studies of industrial processes and hazards, loss experience, test work, and research by FMRC scientists and engineers, property inspections by field engineers and input from industry, professional and trade associations, and other sources. Subject matter includes building design and materials, fire protection equipment and systems, heating and electrical equipment, pressure vessels and boilers, hazardous materials and processes, and mechanical equipment. These provide recommended guidelines for the protection of industrial, commercial, and institutional properties against fire, explosions, wind, boiler and machinery accidents, and other insured perils.</p> <p>Provides approval standards covering various types of fire protection equipment, flammable liquid equipment, fuel and combustion controls, boiler combustion safeguards, industrial trucks, electrical equipment, fire and burglar alarm systems and services, building material assemblies, and products. These specify requirements for approval and listing of equipment, materials, and services intended for loss control purposes and for potential hazards. An approval process includes inspection and audit of the product manufacturer's production and quality control facilities, with periodic follow-up. Approved products are typically labelled as "Factory Mutual System Approved" or "FM Approved."</p>
<b>Availability</b>	Data sheets and standards distributed directly
<b>Keywords</b>	fire protection; boilers; combustion; alarm systems; safety; hazards; electrical equipment; industrial equipment; insurance;

## FARM AND INDUSTRIAL EQUIPMENT INSTITUTE

See EQUIPMENT MANUFACTURERS INSTITUTE

## FEDERATION OF AUTOMATED CODING TECHNOLOGIES

William P. Hakanson, Executive Director

1326 Freeport Road  
Pittsburgh, Pennsylvania 15238  
(412) 963-8588      Telex: 313186 (AIMPGR)  
FAX: (412) 963-8753

Founded: 1986

Standards Staff: 2

### **Type of Organization**

Trade Association  
Standards Developer and works with other organizations  
to develop standards

### **Standards Development**

Standards developer since 1988  
Uses the ANSI canvass review method.

### **Standards Designation**

FACT

### **Scope**

A national association of industry trade associations and governmental agencies which develop, administer or use automatic identification standards and which have a common interest in the reduction of the number of different standards and the development of inter-industry and international standards. FACT represents the views of its members to the international community through liaison with the affiliates of AIM USA (which serves as the secretariat for FACT).

### **Standardization Activities**

Eighteen member organizations and 5 associate company members are involved in the standardization of data identifiers for automatic identification systems and the development of a standard shipping container label in conjunction with ANSI MH10.8.

### **Availability**

Distributed through AIM USA and AIM organizations around the world

### **Keywords**

automatic identification; data identifiers; shipping labels; bar codes;



## FEDERATION OF SOCIETIES FOR COATINGS TECHNOLOGY

Robert F Ziegler, Executive Vice President

1315 Walnut Street  
Suite 832  
Philadelphia, Pennsylvania  
(215) 545-1506

Founded: 1922

<b>Type of Organization</b>	Technical Society Works through other organizations to develop standards
<b>Representation</b>	Many members are engaged in standardization activities with ASTM.
<b>Scope</b>	A technical, professional society of the coatings manufacturing industry. Objectives are to provide and collect scientific, practical, and technical information on the development, manufacture, and use of coatings and printing inks, to encourage scientific and technical educational activities and to promote efforts to improve coatings products and their manufacture. Membership numbers 7,300 and more than 1,000 manufacturers are represented.
<b>Standardization Activities</b>	Cooperates with ASTM on coatings-related standards.
<b>Formerly</b>	Federation of Paint and Varnish Production Clubs
<b>Keywords</b>	paint; coatings; inks; materials;

## FELT MANUFACTURERS COUNCIL OF NORTHERN TEXTILE ASSOCIATION

Karl Spilhaus, President

230 Congress Street  
Boston, Massachusetts 02110  
(617) 542-8220

Founded: 1915

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Designations</b>	FS14-68/71
<b>Scope</b>	Represents over 80 percent of the pressed felt industry of the United States. Part of Northern Textile Association since 1961.

**Standardization  
Activities**

Actively engaged in the establishment, review, revision, and promulgation of physical and chemical specification requirements for standard types of wool felt in both roll and sheet form. The currently active specification is Wool Felt Standard Specification, FS14-68/71.

In addition to counseling federal agencies and engineering societies, such as the American Society for Testing and Materials and Society of Automotive Engineers, on their wool felt specifications, provides new technical information and papers covering additional wool felt performance characteristics which have not yet reached specification requirement status.

**Availability**

Distributed directly

**Formerly**

Felt Association of New York City

**Keywords**

felt; textiles; materials;

**FERTILIZER INSTITUTE**

Ford B. West, Vice President, Government Relations

501 Second Street, NE  
Washington, DC 20002  
(202) 675-8250

FAX: (202) 544-8123

Founded: 1970

Standards Staff: 1

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Secretariats**

Co-Secretariat, ANSI K61.1 Safety Requirement for the Storage and Handling of Anhydrous Ammonia

U.S. Technical Advisory Group to ISO/TC 134 Fertilizers and Soil Conditioners

**Scope**

Supports standardization through simplification of federal and state fertilizer regulatory laws, as well as chemical analytical methods. Also involved in safety standards activities at state and federal levels.

**Standardization  
Activities**

Aims to increase the accuracy and precision of the chemical analysis of fertilizers, and to prevent accidents and injury by means of education and safety practices.

Supports the enactment of state uniform fertilizer laws as recommended by the Association of American Plant Food Control officials. Supports standardization of reporting and publication forms used in various states and counties to record the consumption of fertilizers by material and grade on an annual, semiannual, quarterly, or monthly basis.

**Formerly**

National Plant Food Institute  
Agricultural Nitrogen Institute

**Keywords**

anhydrous ammonia; fertilizer; agriculture;

**FIBRE BOX ASSOCIATION**

Bruce Benson, President

10 Gould Center  
Rolling Meadows, Illinois 60008  
(708) 364-9600

Founded: 1940

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

A nonprofit trade association representing manufacturers of corrugated and solid fiberboard. Aims to promote the industry's general welfare; to represent members before appropriate government, transportation, industrial, or other agencies; to compile and disseminate statistical information; and to develop data useful to its members in marketing their products.

**Standardization  
Activities**

Holds membership in the International Corrugated Case Association and participates in pertinent activities of the American National Standards Institute and the International Organization for Standardization. Advises federal government bodies preparing standards and specifications involving corrugated and solid fiberboard, particularly the General Services Administration.

In conjunction with the Packaging Machinery Manufacturers Institute, it has issued five joint voluntary standards and one recommended practices bulletin, referenced in the FBA Handbook.

**Availability**

Distributed directly

**Keywords**

cardboard; box; corrugated board; fiberboard; packaging;



## FINANCIAL ACCOUNTING FOUNDATION

Joseph S. LaGambina, Executive Vice President  
Financial Accounting Foundation

401 Merrit  
Post Office Box 5116  
Norwalk, Connecticut 06856-5116  
(203) 847-0700

Founded: 1973

### **Type of Organization**

Standards Developer

### **Standards Designation**

FASB Statement  
CASB Statement

### **Government Adoption**

Securities and Exchange Commission (for the FASB)  
Rules of Conduct of American Institute of CPAs

### **Scope**

Independent, nonprofit organization. Sponsored jointly by American Institute of CPAs, Financial Executives Institute, Financial Analysts Federation, National Association of Accountants, American Accounting Association, Securities Industry Association Government Finance Officers Association, National Association of State Auditors, Comptrollers and Treasurers; issues statements, interpretations, technical bulletins, concepts statements; follows "due process" procedures that include task forces of experts, issues papers, public hearings, exposure drafts.

### **Standardization Activities**

Develops standards that govern the general purpose financial reports published by business corporations, state and local government entities, and other organizations. These standards form the base of "generally accepted accounting principles."

Follows due process procedures designed to ensure broad public participation at each stage in the standard-setting process. Board meetings and deliberations are open for public observation.

Has Advisory Councils to advise on agenda projects, priorities, and technical solutions to accounting issues.

### **Availability**

Distributed by the Financial Accounting Foundation

### **Formerly**

Financial Accounting Standards Board

### **Keywords**

accounting; financial reporting;

## FINE HARDWOOD VENEER ASSOCIATION

Larry R. Frye, Executive Director

5603 West Raymond  
Suite 0  
Indianapolis, Indiana 46241  
(317) 244-3311

Founded: 1914

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Standardization Activities</b>	Cooperates in the development of grade rules for lumber which are published by the National Hardwood Lumber Association. Also cooperates with the Hardwood Plywood Manufacturers Association in its Rules for Measurement and Inspection of Veneers and Plywood. These grade rules are in general use both in the United States and foreign countries.
<b>Formerly</b>	Fine Hardwoods Association (1971) Fine Hardwoods-American Walnut Association
<b>Keywords</b>	wood; veneer; plywood;

## FLAT GLASS MARKETING ASSOCIATION

William J. Birch, Executive Vice President

White Lakes Professional Building  
3310 Harrison Street  
Topeka, Kansas 66611  
(913) 266-7013

Founded: 1949

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Scope</b>	Independent glass distributors and contractors using flat glass products including Float, Tempered, Laminated and insulating glass. Disseminates industry information and sponsors educational courses.
<b>Standardization Activities</b>	Publishes a Glazing Manual and a Sealant Manual which are reference guides for proper glazing techniques for all types of glass. Includes new design concepts, glazing methods, and advanced glass products. Used by architects, engineers, contractors, and glaziers worldwide.

<b>Availability</b>	Distributed directly
<b>Formerly</b>	Flat Glass Jobbers Association (1969)
<b>Keywords</b>	glazing; glass; materials; building;

# **FLEXIBLE PACKAGING ASSOCIATION**

Sharon Edward Weary, Director of Technology  
 1090 Vermont Avenue, NW  
 Suite 500  
 Washington, DC 20005  
 (202) 842-3880

Founded: 1950	Standards Staff: 2
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<b>Type of Organization</b>	Trade Association Standards Developer
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<b>Standards Development</b>	Developer of voluntary specifications for flexible packaging material. 28 active standards for cellophane, polyethylene, polyester, and laminated and coated products.
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<b>Scope</b>	Represents converters of packaging materials and suppliers of film, adhesives, printing inks, and converting machinery. Services include government relations, technical information, and membership.
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<b>Standardization Activities</b>	Continuous review of industry's need for voluntary regulations. Specifications often serve as the basis for agreement between a converter or supplier and their customers (end-users). Specifications recognized as equal to those of ASTM (American Society for Testing and Materials) and TAPPI (Technical Association of the Pulp and Paper Industry). Works toward eliminating duplication of effort by other standards organizations although some overlap is required.
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<b>Availability</b>	Sold directly
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<b>Formerly</b>	National Flexible Packaging Association
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<b>Keywords</b>	packaging; plastic film; cellophane; polyethylene; printing; polyester; laminating; bags; aseptic packaging;
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## FLIGHT SAFETY FOUNDATION

John H. Enders, President

2200 Wilson Boulevard  
Suite 500  
Arlington, Virginia 22204  
(703) 522-8300

FAX: (703) 525-6047

Founded: 1945

**Type of  
Organization**

Nonprofit foundation for safety information exchange  
Works through other organizations to develop standards

**Scope**

Fosters the exchange of safety ideas and information to  
enable government and industry worldwide to continually  
upgrade safety standards and practice.

**Standardization  
Activities**

Acts through consultation, committee participation,  
publications, workshops, and regional and international  
seminars.

**Keywords**

flight safety; safety; aviation; transportation;

## FLUID CONTROLS INSTITUTE

Edward C. Rutter, Executive Secretary

P.O. Box 9036  
31 South Street  
Morristown, New Jersey 07963-9036  
(201) 829-0990

Founded: 1921

Standards Staff: 3

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1955  
100 member companies participate in standards  
development through product sections  
18 published standards  
4 processed through ANSI

**Standards  
Designation**

FCI or ANSI/FCI prefixes

**Certification**

No certification, qualification, or accreditation  
programs

**Scope**

A nonprofit association of manufacturers of devices for  
fluid control and fluid conditioning. Includes  
pressure, temperature, and volumetric regulators;

modulating service control valves; solenoid valves; steam traps; fluid clarification equipment such as strainers, separators and filters; silent check valves; pressure and temperature gauges; process control switches and related equipment.

**Standardization  
Activities**

Develops, promotes, and adopts standards. Holds membership in the American National Standards Institute; maintains liaison with International Organization for Standardization and the International Electrotechnical Committee. Works with Instrument Society of America, National Fluid Power Association, and Scientific Apparatus Manufacturers Association on domestic standards.

**Availability**

Distributed directly and through ANSI

**Formerly**

National Association of Steam and Fluid Specialty Manufacturers (1941)  
National Steam Specialty Club (1956)

**Keywords**

gauges; regulators; valves; fluid controls;  
instruments; industrial equipment;

**FOOD PROCESSING MACHINERY AND SUPPLIES ASSOCIATION**

George Melnykovich, Ph.D., President

200 Daingerfield Road  
Alexandria, Virginia 22314  
(703) 684-1080

Founded: 1885

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Scope**

Firms manufacturing machinery and providing services and supplies for the canning, freezing, and food processing industry.

**Standardization  
Activities**

A Technical and Sanitation Committee is responsible for the administration of activities in cooperation with associations dealing with the establishment of standards of materials used in the production, preparation, processing, and packaging of foods and other products which are packaged in glass, metal, fiber, and/or plastic. Cooperates with the National Food Processors Association and the Can Manufacturers Institute in the standardization of sizes of tin cans and with the Glass Container Association of America in developing standard sizes of glass containers.

**Formerly** Canning Machinery and Supplies Association  
**Keywords** canning; food processing; packaging;

**FORGING INDUSTRY ASSOCIATION**

Catherine D. Sabo, Director, Industrial Relations,  
Safety, Government, and Environmental Affairs

25 Prospect Avenue West  
LTV Building Suite 300  
Cleveland, Ohio 44115  
(216) 781-6260 FAX: (216) 781-0102

Founded: 1913 Standards Staff: 2

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Four standards on allowances and tolerances for forgings and rolled rings.

**Representation** Five members are active in FIA standardization including representatives on standards committees of ANSI, ASME, NFPA, and others.

**Secretariats** ANSI B24.1-1985 Safety Requirements for Forging

**Scope** A nonprofit corporation composed of U.S. and Canadian producers of forgings and producers of raw materials, equipment, or services commonly used in the forging industry.

**Standardization Activities** Works within the voluntary standards system to coordinate forging industry safety and product standards and acts as the industry voice. Represents the industry to standards-developing organizations such as ANSI, ASME, and NFPA. FIA is also represented by members on the American National Standards Committee B11 Machine Tools and Related Equipment; ANSI Z137 - Hearing Protection Devices; ANSI B30-Safety Standards for Cableways, Cranes, Derricks, Hoists, Hooks, Jacks and Slings; and National Fire Protection Association 86-Ovens and Furnaces.

Publishes Guidelines for Tolerances for Hot Forged Impression Die Forgings; Hammer, Press and Upsetter; Tolerances for Precision Aluminum Forgings; and Allowances and Tolerances for Seamless Rolled Rings.

**Formerly** American Drop Forging Association (1935)  
Drop Forging Association (1965)



Open Die Forging Institute Absorbed (1982)  
Canadian Forging Association Absorbed (1983)

**Keywords** forging; rolled rings; machinery; materials;

**FRICTION MATERIALS STANDARDS INSTITUTE**

Gilbert N. Laycock, Executive Director

588 Monroe Turnpike  
Monroe, Connecticut 06468  
(203) 452-1877

Founded: 1949

Standards Staff: 1

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Scope** An association of worldwide manufacturers of friction materials (brake linings, brake blocks, and clutch facings). Members represent over 80% of United States manufacturers of friction materials.

**Standardization Activities** Standardization activities, administered by the Data Book and Technical Committee, comprise 25% of the total program. Issues catalogs using a standard numbering system for all current automotive brake linings, brake shoes, and clutch facings. A copyrighted numbering system is authorized for use by the institute, its members and their customers. FMSI's standard numbering system is worldwide in scope. Publishes the Automotive Data Book.

**Formerly** Brake Lining Manufacturers Association (BLMA)

**Keywords** materials; brake linings; automotive; machinery; clutch facings;

**GAS APPLIANCE MANUFACTURERS ASSOCIATION**

Harry A. Paynter, President

1901 North Moore Street  
Arlington, Virginia 22209  
(703) 525-9565 Telex: (703) 525-9565

Founded: 1936

**Type of Organization** Trade Association  
Works through other organizations to develop standards

<b>Representation</b>	Over two hundred representatives of member firms active in 50 standards committees of ANSI, ASTM, ASHRAE, ASME, NFPA, and others.
<b>Certification</b>	GAMA operates programs which randomly select gas and oil furnaces and boilers, and gas, oil, electric, and heat pump water heaters from participating members and tests them in accordance with DOE efficiency test procedures at ETL Testing Laboratories, Inc. to verify the manufacturers established efficiency ratings which are published semiannually.
<b>Secretariats</b>	Secretariat to ISO/TC 161. Convenor of Working Group 2 of ISO/TC 161. Administrator of U.S. Technical Advisory Group for ISO/TC 161 on gas controls.
<b>Scope</b>	A trade association for 200 manufacturers of residential, commercial, and industrial gas appliances and equipment; gas, electric, heat pump, and oil water heaters; gas- and oil-fired central furnaces; and equipment used in the production, transmission, and distribution of natural gas.
<b>Standardization Activities</b>	Works through the national standards promulgation procedures of other groups and organizations which develop and maintain 80 standards. In this manner, a high quality of manufacturers' input has been provided in the development and constant maintenance of standards for gas appliances and equipment which have been recognized as American National Standards by the American National Standards Institute.  Cooperates with Government agencies such as the Department of Commerce, Department of Energy, Consumer Product Safety Commission, Federal Housing Administration, Federal Trade Commission and General Services Administration.
<b>Keywords</b>	gas appliance; furnaces; water heaters; gas transmission equipment; energy; building; consumer products; industrial equipment;

#### **GAS PROCESSORS ASSOCIATION**

Ronald E. Cannon, Executive Director

6526 East 60th Street  
Tulsa, Oklahoma 74145  
(918) 493-3872

FAX: (918) 493-3875

Founded: 1921

Standards Staff: 8

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Designation</b>	Standards; Technical Publication TP; Research Report RR
<b>Secretariats</b>	ASTM Technical Division H of Committee D-2 on Petroleum Products and Lubricants ISO/TC 28/SC4/WG8 on LP-Gas Specifications
<b>Scope</b>	An international trade association of 200 member companies that produce and process natural gas, or engage in processing, transport, storage, or marketing of natural gas liquids. Six technical subcommittees prepare and maintain industry standards applicable to the gas processing industry. Standards include plant design and analytical procedures for natural gas and gas liquids.
<b>Standardization Activities</b>	Develops and maintains product specifications for natural gas liquids (propane, butane, natural gasoline), principally for large inter-company industrial custody transfer. Specifications require and include industry standards for gas and liquid measurement, gas and liquid analysis, storage facilities, and physical property data. Also maintains specifications for the consumer products LP-Gas (commercial propane and commercial butane). A continuing research program is directed toward development of measurement data and thermodynamic properties of natural gas and gas liquid mixtures.
<b>Availability</b>	Sold directly and through IHS
<b>Formerly</b>	Natural Gas Processors Association (1964)
<b>Keywords</b>	liquefied gas; natural gas; energy; consumer products;

**GEMOLOGICAL INSTITUTE OF AMERICA**

Bill Boyajian, President

1660 Stewart Street  
Santa Monica, California 90406  
(213) 829-2991

Founded: 1931

<b>Type of Organization</b>	Trade Association Standards Developer
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<b>Standards Designations</b>	Diamond Quality Standards
<b>Certification</b>	Grading reports issued by GIA's Gem Trade Laboratories are referred to as Diamond Quality Reports, although in the jewelry industry they are most often called certificates.
<b>Scope</b>	Promotes the jewelry trade, serves the needs and professional interests of members, and upgrades skills through educational programs in the identification and quality analysis of gemstones and pearls, jewelry making and repair, retailing and store management. Maintains gem testing and research laboratories and develops testing and grading equipment.
<b>Standardization Activities</b>	Key elements of the Institute's education program are standard grading systems developed by the Institute to evaluate and appraise diamonds and colored stones. Standards for quality analysis and grading were first established for polished diamonds in 1953.
<b>Keywords</b>	diamonds; jewelry; quality; grading; testing; consumer products;

#### **GENERAL AVIATION MANUFACTURERS ASSOCIATION**

Stanley J. Green, Vice President

1400 K Street, NW  
Suite 801  
Washington, DC 20005  
(202) 393-1500

FAX: (202) 842-4063

Founded: 1970

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1974 Eight active standards None processed through ANSI Draft standards not available for review
<b>Standards Designations</b>	GAMA Specifications
<b>Government Adoption</b>	The FAA accepts compliance with GAMA specifications in lieu of its own standards or regulations or as an acceptable means of meeting FAA regulations.
<b>Scope</b>	A national trade association representing U.S. manufacturers engaged in the research, development, and

manufacture of general aviation aircraft, aircraft engines, avionics, and component parts of general aviation aircraft.

**Standardization  
Activities**

Directed toward meeting industry needs with respect to dissemination of operating, maintenance and safety information, or to government certification requirements. GAMA standards include specifications for pilot's operating handbook, manufacturers maintenance data, decal to minimize the misfueling of general aviation aircraft, and specification for tape to mark fueling nozzles. In the case of standards developed to fulfill government requirements, FAA participates in the development and approval of the standards. Standards have been used worldwide by aircraft manufacturers in order to meet FAA's requirements without the need to develop individual means of compliance. Monitors the activities of other standards developing organizations, including RTCA, SAE, ASTM, and the ISO.

**Availability**

Distributed directly and through NSA

**Keywords**

aviation; avionics; transportation; maintenance; pilot training;

**GLASS PACKAGING INSTITUTE**

Lewis D. Andrews, Jr., President

1801 K Street, NW  
Suite 1105-L  
Washington, DC 20006  
(202) 887-4850

FAX: (202) 785-5377

Founded: 1945

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

Represents the manufacturers of glass containers and closures producing 90 percent of the United States output. Promotes the continued growth and acceptance of glass containers as desirable, competitive packages of beverages, foods, and other commodities.

**Standardization  
Activities**

Maintains a Technical Committee augmented by specific subcommittees and task groups. This committee meets regularly with qualified specialists from participating firms to review and investigate unique technical problems developing in the industry. Participated in the development of the Department of Commerce, Voluntary Product Standard for Carbonated Soft Drink

Bottles (PS 73-89), which covers major considerations in the manufacture and control of containers for carbonated soft drinks.

**Keywords** packaging; glass containers;

#### GLASS TEMPERING ASSOCIATION

William J. Birch, Executive Director

White Lakes Professional Building  
3310 Harrison Street  
Topeka, Kansas 66611  
(913) 266-7064

Founded: 1958

**Type of Organization** Technical Society  
Standards Developer

**Scope** A nonprofit organization of firms engaged in tempering glass.

**Standardization Activities** Develops specifications, standards, and testing procedures for a variety of tempered glass products. Technical committees are involved in Standards and Engineering, Appliance Specifications, Construction Specifications, Spandrel Specifications and Consumer Safety Glazing Legislation. Publishes the Engineering and Standards Manual.

**Availability** Distributed directly

**Keywords** glass tempering; tempered glass; materials; building;

#### GOLD INSTITUTE

John H. Lutley, Managing Director

1026 16th Street, NW  
Washington, DC 20036  
(202) 783-0050

Telex: 904233  
FAX: (202) 873-2127

Founded: 1976 Standards Staff: 1

**Type of Organization** Trade Association  
Standards Developer

**Standards Designations** Unified Number Designations



<b>Certification</b>	No certification programs; supplier self certification
<b>Secretariats</b>	ASTM Committee B-2, Section on Unified Numbering System Designations for Precious Metals
<b>Scope</b>	An international trade association of miners, refiners, fabricators, and bullion dealers. Extends the market for the use of gold through publications, seminars, joint symposiums with technical organizations, and trade shows.
<b>Standardization Activities</b>	Develops standard alloy designations for gold alloys for Unified Numbering System for Metals and Alloys issued by the Society of Automotive Engineers (SAE) and the American Society for Testing and Materials (ASTM).
<b>Availability</b>	Distributed directly and through ASTM and SAE
<b>Keywords</b>	gold; precious metals; bullion; alloys; materials;

#### GRAIN ELEVATOR AND PROCESSING SOCIETY

David Krejci, Executive Vice President

301 4th Avenue South  
Suite 365  
P.O. Box 15026 Commerce Station  
Minneapolis, Minnesota 55415  
(612) 339-4625

Founded: 1930

Standards Staff: 1

<b>Type of Organization</b>	Professional Society Works through other organizations to develop standards
<b>Scope</b>	An international association of individuals working directly with grain handling, operations or processing, or individuals providing products and services to the grain handling and processing industries. Promotes individual professionalism and fellowship, and safe, efficient operations within the grain and processing industries.
<b>Standardization Activities</b>	Promotes safe, efficient, cost-effective regulations in the grain handling and processing industries.  Not a standards developer but works through volunteer committees formed both by GEAPS and other grain industry associations.  Committees working with standards and regulatory agencies are the Safety and Health Committee and Grades and Weights Committee. The Safety and Health Committee

works with and monitors the activities of the Occupational Safety and Health Administration. The Grades and Weights Committee works with the USDA Federal Grain Inspection Service. Standards relating to air and water quality, use of respiratory equipment, noise levels, equipment maintenance, emergency procedures, safety, and air transportation are also monitored.

**Formerly** Society of Grain Elevator Superintendents

**Keywords** grain; milling; agriculture; safety;

#### GRAPHIC COMMUNICATIONS ASSOCIATION

Norman W. Scharpf, President

1730 North Lynn Street, Suite 604  
Arlington, Virginia 22209

Founded: 1966                      Standards Staff: 3

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1976  
40 member committees plus staff participate in standards activities  
Three active standards or recommended specifications  
One being processed through ISO  
Draft standards available for review

**Standards Designation** GCA Standard; recommended specifications

**Government Adoption** Department of Defense, Internal Revenue Service, and others have adopted GCA standards.

**Certification** No certification, qualification, or accreditation programs

**Scope** An international membership association of printers, publishers, suppliers, and related industry firms dedicated to advancing the application of electronic technologies and modern management techniques in the graphic communications industry.

**Standardization Activities** Develops standards and specifications for text processing and textual data base identification; specifications for computer preparation of publications mailing labels; structures for magnetic tape transmittal of name and address information for printing and publishing applications; production

specifications for web offset publications; operation codes for the pressroom; computer protocols for various functional areas. Works with the industry Specifications Committee for Web Offset Publications, and takes a membership role in ANSI X3J6, X3V1 and related task groups.

**Availability** Distributed directly and through PIA (Printing Industries of America, Inc.)

**Formerly** Graphic Communications Computer Association; PIA Computer Section

**Keywords** printing; computers; text; mailing; information processing; communications;

#### GRAVURE ASSOCIATION OF AMERICA

David A. Smith, Executive Vice President

90 Fifth Avenue  
New York, New York 10011  
(212) 255-0070

Founded: 1949

**Type of Organization** Trade Association  
Standards Developer

**Scope** Association of printing firms using the gravure printing process. Promotes quality printed products through the cooperation of publisher, printer, engraver, supplier, and advertising agency.

**Standardization Activities** Develops standards to cover every facet of printing including input, proofing and packaging. Standards are produced through a network of councils and subcommittees on a voluntary basis. Two hundred and seventy member firms observe GTA standards in publication, packaging and specialty gravure.

**Formerly** Gravure Technical Association

**Availability** Distributed directly

**Keywords** printing; ink; paper; photomechanical printing; communications;



## GRINDING WHEEL INSTITUTE

Allen P. Wherry, Manager

30200 Detroit Road  
Cleveland, Ohio 44107  
(216) 899-0010

FAX: (216) 892-1404

Founded: 1914

Standards Staff: 3

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1914

**Secretariats**

Accredited Standards Committee B7 on Use, Care, and  
Protection of Abrasive Wheels  
Accredited Standards Committee B74 on Abrasives

**Scope**

Manufacturers of wheels, stones, and other bonded  
abrasive products for grinding, sharpening, and  
polishing.

**Standardization  
Activities**

Carried on by the Standards and the Safety Committees.  
Work of the Standards Committee deals with  
simplification matters. Initiated program for  
simplification of sizes of grinding wheels. Assists in  
the development of American National Standards covering  
the products of the industry, these include:

B74 - The development of identification and dimensional  
standards and standard test methods for bonded, coated,  
and loose abrasives in the natural and manufactured  
categories.

B7 - Specifications for safety in the use of bonded,  
coated, and loose abrasives, excluding natural  
sandstones; including safety requirements for abrasive  
products, abrasive machines and accessories, and  
requirements for the proper storage, handling, and  
mounting of abrasive products.

Also participates in international standardization work  
with the International Organization for Standardization  
(ISO) and the Federation of European Producers of  
Abrasives (FEPA).

**Availability**

Distributed directly and through ANSI

**Formerly**

Grinding Wheel Manufacturers Association (1948)

**Keywords**

abrasive wheels; grinding wheels; abrasives; abrasive  
grain; diamond abrasives; machinery;

## GUMMED INDUSTRIES ASSOCIATION

Robert W. McKellar, Managing Director

5 Darrow Court  
Post Office Box 92  
Greenlawn, New York 11740  
(516) 261-0114

Founded: 1920

Standards Staff: 2

### **Type of Organization**

Trade Association  
Standards Developer

### **Standards Development**

Standards developer since 1950  
30 members and associate members participating in  
standards activities  
8 active standards  
None processed through ANSI  
Draft standards available for review

### **Certification**

Annual testing of participating members' products.  
Compliance Seal.

### **Scope**

A national trade association representing U.S.  
companies engaged in the manufacture of water-activated  
gummed carton and box sealing tapes. Major suppliers  
of raw materials and dispensing and application  
equipment also participate actively in all phases of  
the association's programs.

### **Standardization Activities**

Develops standardized test procedures for adhesiveness,  
tensile, tear resistance, basis weight, and related  
characteristics. Develops and publishes Voluntary  
Product Standards designed to provide end users of  
gummed tape products with scientific data relating to  
the differences between a wide range of specific tape  
grades.

### **Availability**

Sold directly and through members

### **Keywords**

sealing tapes; gummed tapes; tape equipment; packaging;

## GYPSUM ASSOCIATION

Jerry A. Walker, Executive Director

810 First Street, NE  
Suite 510  
Washington, DC 20002  
(202) 289-5440

Founded: 1930

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Designation</b>	GA prefix
<b>Scope</b>	Promotes the use of gypsum and gypsum products. Conducts technical research programs in fire, sound, and structural testing of gypsum products and related accessories. Contributes to building codes through education in the application and uses of gypsum products, and to the life-safety aspects of fire protection by providing advisory services in the interests of the industry and users of its products. Serves as the gypsum information center for all federal, state and local jurisdictions as well as architects, specification writers and contractors.
<b>Standardization Activities</b>	Maintains committees in the areas of Building Codes, Manufacturing and Mining, Promotion, Safety, and Technical. Prepares and publishes GA-216, Recommended Specifications for the Application and Finishing of Gypsum Board and GA-600, Fire Resistance and Sound Control Design Manual, as referenced by the BOCA National Building Code, SBCCI Standard Building Code and the ICBO Uniform Building Code. Has over 60 years of leadership in the ASTM C-11 Standards Committee on Gypsum and Related Building Materials and Systems.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	gypsum; construction; materials;

**HACK AND BAND SAW MANUFACTURERS ASSOCIATION OF AMERICA**

Charles M. Stockinger, Secretary/Treasurer

1230 Keith Building  
Cleveland, Ohio 44115  
(215) 241-7333

Telex: 980393

Founded: 1959

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1920 Two active standards
<b>Standards Designation</b>	ANSI prefix



<b>Scope</b>	A trade association consisting of 13 United States manufacturers of hack and band saw blades. Promotes common business interests of the industry.
<b>Standardization Activities</b>	Has been active in the standardization of hack saw blade sizes and band saws. Currently active on ASME B94 TC 19 Standardization Committee for Hack, Band, and Hole Saws, and on ISO/TC 29 WG 15, Band Saws. Continuously reviews and recommends changes in standards due to rapid addition of new blades and applications in the market place. Currently working with machine manufacturers for band saw length standardization.
<b>Availability</b>	Distributed directly and through ANSI
<b>Formerly</b>	Merged Hack Saw Association and Metal Cutting Band Saw Association (1959)
<b>Keywords</b>	cutting; saws; manufacturing;

#### **HAIR INTERNATIONAL**

Rhonda Newell, Office Administrator

1318 Starbrook Drive  
Charlotte, North Carolina 28210

Founded: 1924

<b>Type of Organization</b>	Professional Society Standards Developer
<b>Certification</b>	Examinations to certify ability to do hairpiece work, styling, coloring, relaxing, and merchandising are required for the professional certification of barbers.
<b>Scope</b>	Aims to professionalize the industry through education and standardization.
<b>Standardization Activities</b>	Administers a National Education Council and Executive Committee which are active in standards activities. Standard rules and regulations are written for and apply to barber colleges, individual students and barbers, hairstylists, textbooks, and for judging contestants in contests. State regulations, however, supersede Hair International rules and regulations. Advocates use of a barber stylist standardized examination and educational program for the profession. Current projects include standardization of advanced educational methods in barber schools, as well as for

shows and educational seminars. Promotes its standards through mailings, personal contact, a monthly magazine, and barber shows.

**Formerly** Associated Master Barbers and Beauticians of America  
**Availability** Distributed directly  
**Keywords** barbers; hair; beauticians; education;

#### HAND TOOLS INSTITUTE

Richard C. Byrne, Executive Director

25 North Broadway  
Tarrytown, New York 10591  
(914) 332-0040

Founded: 1935

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** 65 members participate in standards development  
25 active standards  
Processed through ANSI

**Standards Designations** ANSI B107.x

**Scope** Promotes and furthers the interests of its members relative to manufacturing, safety, standardization, international trade, and government relations. Provides a broad spectrum of educational subjects of industry interest, such as statistical and marketing surveys. Educates the hand tool user on the safe and proper use of hand tools.

**Standardization Activities** Develops and advances standards dealing with performance, design and safety. Representatives serve on U.S. TAGs to ISO standards committee.

**Availability** Distributed directly and through ANSI

**Formerly** Service Tools Institute

**Keywords** tools; industrial equipment; consumer products;

## HARDWOOD MANUFACTURERS ASSOCIATION

Susan M. Regan, Executive Vice President

2831 Airways Boulevard, Suite 205  
Memphis, Tennessee 38132  
(901) 525-8221

Founded: 1935

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Scope**

Manufacturers of southern hardwood lumber and hardwood products. Compiles statistics.

**Standardization  
Activities**

Southern hardwoods are graded under the rules of the National Hardwood Lumber Association. Cooperates with the National Hardwood Lumber Association in grade standardization of hardwood lumber; also with Government agencies and all lumber associations in the development of American Lumber Standards fostered by the Department of Commerce.

**Formerly**

Southern Hardwood Lumber Manufacturers Association

**Keywords**

lumber; wood products;

## HARDWOOD PLYWOOD MANUFACTURERS ASSOCIATION

E.T. Bill Altman, President

1825 Michael Faraday Drive, Box 2789  
Reston, Virginia 22090  
(703) 435-2900

Founded: 1921

Standards Staff: 4

**Type of  
Organization**

Trade Association  
Standards Developer

**Certification**

HPMA has inspection, testing, and certifying programs for glue bond, structural, flamespread, and formaldehyde emissions.

**Scope**

A national trade association for hardwood plywood and veneer manufacturers and prefinishers of hardwood plywood. Functions on a national and international level representing its membership at United Nations Food and Agriculture Organization (UN FAO) Wood Based Panel Product Meetings and Asian plywood conferences held every two years. Promotes the sale and use of hardwood plywood.



**Standardization  
Activities**

Publishes the American National Standard for Laminated Hardwood Flooring, ANSI/HPMA LHF 1987; American National Standards for Hardwood and Decorative Plywood, ANSI/HPMA HP-1982, as well as HP-SG-86, Structural Design Guide for Hardwood Plywood; CB-SG-73, Design Guide for Wood Composition Board Panels; and GP-RUD-73, Recommended Use Document for Two-Ply Panels for Gusssets. Cooperates with all government agencies to write federal and military specifications which affect hardwood plywood, veneer, and flooring.

Monitors U. S. model building codes with reference to hardwood plywood products.

**Availability**

Distributed directly

**Formerly**

Hardwood Plywood Institute

**Keywords**

hardwood plywood; veneer; paneling; flooring; construction; building; wood products;

**HEALTH INDUSTRY MANUFACTURERS ASSOCIATION**

Norman F. Estrin, Ph.D., Vice President,  
Science and Technology

1030 15th Street, NW, Suite 1100  
Washington, DC 20005  
(202) 452-8240

Founded: 1975

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Secretariats**

U.S. Technical Advisory Groups for IEC/TC 62 and TC 62A

**Scope**

330 manufacturers of medical devices and in vitro diagnostics. Focuses on legislative and regulatory international and health policy issues affecting the industry.

**Standardization  
Activities**

Works through other organizations to ensure that member views are represented on policy issues related to voluntary and regulatory standards. Cooperates with AAMI, ASTM, NCCLS, ANSI, and other organizations.

**Keywords**

health; medical equipment; diagnostic products;

## HEALTH PHYSICS SOCIETY

Richard J. Burk, Executive Secretary

8000 Westpark Drive  
Suite 400  
McLean, Virginia 22102  
(301) 790-1745

Founded: 1956

**Type of  
Organization**

Professional Society  
Standards Developer

**Standards  
Development**

Standards developer since 1956  
100 members participate in standards activities  
17 active standards  
10 in development stage  
All processed through ANSI

**Government  
Adoption**

Several HPS/N13 standards have been adopted by government agencies, such as the NRC.

**Secretariats**

ANSI N13 Committee on Radiation Protection since 1976

**Scope**

Encourages the development of scientific knowledge and practical means for the protection of man and his environment from the harmful effects of radiation, while encouraging its optimum utilization for the benefit of mankind.

**Standardization  
Activities**

Standards development directed toward the area of radiation protection including radiation monitoring, air sampling, personnel dosimetry, bioassay, environmental surveillance, and radiation emergency response. Standards are widely used by nuclear facilities, regulatory agencies, research and academic institutions, and medical facilities which participate in their development.

**Availability**

Draft standards distributed directly. Published standards distributed through ANSI.

**Keywords**

dosimetry; radiation; nuclear energy; public health;

## HEAT EXCHANGE INSTITUTE, INC.

John H. Addington, Secretary/Treasurer

1621 Euclid Avenue  
1230 Keith Building  
Cleveland, Ohio 44115-2180  
(216) 241-7333 FAX: (216) 241-0105

Standards Staff: 3

## Type of Organization

## Trade Association Standards Developer

## Scope

The HEI is a nonprofit trade association committed to the technical advancement, promotion, and understanding of a broad range of utility and industrial-scale heat exchanger and vacuum apparatus. The Institute concentrates its efforts on the manufacturing and engineering aspects of steam surface condensers, closed feedwater heaters, power plant heat exchangers, liquid ring vacuum pumps, and steam jet ejectors.

## Standardization Activities

Develops standards concerning steam surface condensers, closed feedwater heaters, power plant heat exchangers, liquid ring vacuum pumps, and steam jet ejectors.

## Keywords

condensers; feedwater heaters; heat exchangers; vacuum pumps; steam jet ejectors; energy; industrial equipment;

## HELICOPTER ASSOCIATION INTERNATIONAL

Frank L. Jensen, Jr., President

1619 Duke Street  
Alexandria, Virginia 22314-3439  
(703) 683-4646      Telex: 89-615  
                                 FAX: (703) 683-4745

Founded: 1948

Type of Organization

Trade Association  
Works through other organizations to develop standards

## Representation

Federal Aviation Administration, National Transportation Safety Board, National Fire Protection Association, and other national and international organizations developing standards for safety, test, performance, and environment affecting helicopter design or operation.

## Certification

Participates in development and coordination of certifications promulgated by federal, state, and international authorities.

## Scope

Nearly 1,100 member companies, including 542 civil helicopter operators in 47 countries. Its 24 committees represent the helicopter industry in federal and state regulatory matters, and provide civil helicopter operator user input in the areas of federal aviation regulation, heliport development, noise, and



related subjects. Develops, promotes, and conducts helicopter safety and management education programs worldwide. Works with the National Transportation Safety Board and the Federal Aviation Administration to identify accident cause factors and trends relating to accident prevention. Publishes periodic Safety Review newsletters.

**Standardization  
Activities**

Develops, coordinates, and reviews recommended federal, state, and local standards and criteria for heliport and helicopter operations; assists community planners and heliport developers in environmental assessment and analysis of proposed heliports in communities and city business districts; participates in the development of National Fire Protection Association codes involving heliport/helicopter fire protection and crash/rescue services. Develops, coordinates, and recommends to federal, state, and local authorities standards and criteria for the establishment of civil public-use heliports, hospital heliports, off-shore helidecks, private and personal use heliports.

Coordinates emergency medical service planning with national and regional medical authorities, other associations, emergency planners, hospital administrations, helicopter operations, and manufacturers to establish acceptable operational criteria for specific emergency medical service applications.

**Formerly**

Helicopter Association of American (HAA)

**Keywords**

helicopter; heliport; aviation; safety; transportation; emergency medical care;

**HOME AUTOMATION ASSOCIATION**

Nick Pyle, Association Administrator

Post Office Box 3731  
Washington, DC 20007  
(202) 333-8579

Founded: 1988

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

Represents dealers, installers, architects, utilities, manufacturers, designers, engineers, home builders, consultants, and individuals interested in home automation.

<b>Scope</b>	Association members meet under HAA's umbrella to discuss issues that affect the home control industry. HAA provides an unbiased forum to discuss the advancement of the home control industry and does not advocate the use of any particular product or protocol. Committees have been established to independently address concerns.
<b>Standardization Activities</b>	HAA's Standards and Protocols Committee is addressing need for standards for power line media, packet format, languages and other system elements as well as features which assure compliance with the National Electrical Code and related requirements.
<b>Keywords</b>	building; communications; consumer products; information processing; electrical; electronic; energy; environment; heating;

#### HOME VENTILATING INSTITUTE - DIVISION OF AMCA

	D.O. Rammien, Executive Director
	30 West University Drive Arlington Heights, Illinois 60004 (708) 394-0150
	Founded: 1955
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Government Adoption</b>	The HVI label is cited by the Department of Housing and Urban Development, Federal Housing Administration as evidence of compliance with test requirements of the Minimum Property Standards which require that all ventilating equipment be tested and rated according to HVI procedures.
<b>Certification</b>	Conducts a program for certified performance standards for residential ventilating devices. HVI certified ratings for air delivery were introduced in 1960 and for sound emission in 1971. All ratings are based on independent tests at Texas A & M University. Products bearing the HVI label must be so certified.
<b>Scope</b>	A voluntary organization for manufacturer self-regulation of residential and static ventilating devices.
<b>Standardization Activities</b>	Writes recommended practices for manufacturers. Develops certified ratings for air delivery and sound emission related to air change standards for kitchens, bathrooms, and other rooms. Recognized as a quality

control agency by the International Conference of Building Officials. Recognized as a testing agency by the Building Officials and Code Administrators International. Develops standards for space ventilators. Cooperates with ASHRAE, CSA and other organizations in developing proposed standards. Standards are available in HVI's guide and annual directory of ratings.

**Availability** Distributed directly

**Keywords** ventilating; acoustics;

#### HUMAN FACTORS SOCIETY

Lynn Strother, Executive Administrator

P.O. Box 1369  
Santa Monica, California 90406  
(213) 394-1811

Founded: 1957 Standards Staff: 1

**Type of Organization** Professional Society  
Standards Developer

**Standards Development** 100 members active in standards activities  
One standard available

**Secretariats** U.S. TAG to ISO 159

**Scope** An interdisciplinary organization of professional people involved in the human factors field. Promotes the discovery, exchange, and application of knowledge concerning the relationship of people to their machines and their environment. Advocates the consideration of operators, maintainers, and users in the design of equipment and facilities. Supports the development of working and living environments that are comfortable and safe.

**Standardization Activities** Has developed a standard on visual display terminal (VDT) workplace design through ANSI Safety and Health Management Board.

**Availability** Sold directly and through ANSI

**Keywords** human factors; ergonomics; safety; workplace design; office products; public health;



## HYDRAULIC INSTITUTE

Allen P. Wherry, Secretary Treasurer

30200 Detroit Road  
Cleveland, Ohio 44145  
(216) 899-0010

FAX: (216) 892-1404

Founded: 1917

Standards Staff: 3

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1917  
70 member companies participating in standards  
activities

**Certification**

No certification, qualification, or accreditation  
programs

**Secretariats**

American National Standards Committee B215, Pumps; U.S.  
TAG for ISO/TC 115

**Scope**

A nonprofit, national trade association that represents  
U.S. companies engaged in the manufacture of pumps;  
dedicated to excellence in engineering, manufacturing,  
and application of pumping equipment.

**Standardization  
Activities**

Publishes standards in the public interest, designed to  
enhance understanding between the manufacturer and the  
purchaser, and to assist the purchaser in selecting and  
obtaining the proper product for his particular need.  
Cooperates with other organizations, including the  
American National Standards Institute, the American  
Society of Mechanical Engineers, the National  
Electrical Manufacturers Association, and the National  
Fire Protection Association, in writing standards  
subject to constant review and revision when necessary.  
The standards program is based on work performed by  
Technical Committees specializing in particular types  
of pumps. The present standards edition is an  
extensive rework of previous editions with four  
principal sections: centrifugal, vertical, recipro-  
cating, and rotary pumps. Provides information on:  
classes, types, and nomenclature; ratings; test codes;  
applications; and installation, operation, and  
maintenance; and measurement of airborne sound from  
pumping equipment and construction materials. Also  
publishes the Engineering Data Book.

**Availability**

Sold directly

**Formerly**

Hydraulic Society

**Keywords** pumps; fluids; industrial equipment;

**HYDRONICS INSTITUTE**

John I. Woodworth, Technical Director

35 Russo Place  
PO Box 218  
Berkeley Heights, New Jersey 07922  
(201) 464-8200

Founded: 1915

Standards Staff: 3

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1940

**Government  
Adoption**

Equipment performance ratings are specified in Standard Specifications of several federal and state agencies.

**Certification**

Equipment rating resulting from tests are certified by the Ratings Committee, and are published in books for general distribution to specifiers. Under new procedures established by DOE and FTC, the Institute tests and certifies the performance of residential boilers as meeting the standards of the regulations. Such certification is provided to municipalities and to users.

**Scope**

Manufacturers of hydronic (hot water and steam) heating and cooling equipment. Compiles statistics; sponsors educational programs. Assists government agencies, professional societies, and other trade associations in developing standards for residential and commercial buildings, hot water heating, steam, piping and system design criteria, residential cooling, panel heating, snow melting.

**Standardization  
Activities**

Sponsors and funds research programs, the results of which form the basis for developing standards for testing heating boilers, comfort radiation equipment, immersion water heaters, and for establishing their ratings and installation criteria. Performs certification tests as requested for both members and non-members. Performs re-tests on products in manufacturers' stock, chosen at random.

Provides guidance to government agencies at no cost in developing mechanical specifications, energy conservation standards, performance standards.

<b>Formerly</b>	Institute of Boiler & Radiator Manufacturers (1970) Steel Boiler Institute (1963) Better Heating-Cooling Council (1970)
<b>Keywords</b>	heating; cooling; boilers; hot water; snow melting; panel heating; building; industrial equipment;

**ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA**

John E. Kaufman, Technical Director

345 East 47th Street  
New York, New York 10017  
(212) 705-7916

Founded: 1906

Standards Staff: 2

<b>Type of Organization</b>	Technical Society Standards Developer
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<b>Standards Development</b>	Standards developer since 1907 285 members participating in standards activities 7 active standards All processed through ANSI
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<b>Government Adoption</b>	Portions of several standards have been adopted by OSHA.
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<b>Scope</b>	A technical society devoted to advance the art, science, and practice of illumination by investigation, evaluation, and dissemination of knowledge to consumers, producers, and general interest groups through educational, literary, and scientific means.
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<b>Standardization Activities</b>	Maintains 106 technical committees and subcommittees that study and report to its Board of Directors on lighting of all areas, such as airports and aircraft, farms, industrial plants, institutions, offices, public conveyances, residences, schools, service stations and parking areas, sports and recreational areas, stores, streets and highways, theatres and television studios. Other subjects include light sources, lighting and air-conditioning, lighting education programs, lighting progress, lighting maintenance, light control and luminary design, nomenclature, quality and quantity of light, testing procedures for illumination characteristics, and photobiology. Six reports have become ANSI standards:
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ANSI/IES RP-1, Office Lighting  
ANSI/IES RP-3, School Lighting  
ANSI/IES RP-7, Industrial Lighting  
ANSI/IES RP-8, Roadway Lighting



ANSI/IES RP-16, Nomenclature  
ANSI/IES RP-22, Tunnel Lighting

**Availability** Distributed directly and through ANSI, IHS, and Global

**Keywords** lighting design; illumination; lighting; buildings;  
public health;

**INDIANA LIMESTONE INSTITUTE OF AMERICA**

William McDonald, Architectural Service Director

Stone City National Bank Building  
Suite 400  
Bedford, Indiana 47421  
(812) 275-4426

Founded: 1928

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** 1 active standard

**Scope** Serves the construction industry, the architectural profession, and the limestone industry as a coordinating agency for the dissemination of accurate, unbiased information on limestone standards, recommended practices, grades, colors, finishes, and all technical data required for specifying, detailing, fabricating, and erecting Indiana limestone. The institute is supported by quarriers, fabricators and associates of Indiana limestone building stone.

**Standardization Activities** Maintains a Technical Committee responsible for standardization activities. The Indiana Limestone Handbook, the only ILIA standard, is the national standard for the industry. In addition, Government agencies include reference to ILIA, as the standard source for information on Indiana limestone, in their standards and specifications.

**Availability** Distributed directly

**Formerly** Absorbed the National Association for Indiana Limestone.

**Keywords** limestone; materials; construction;

## INDUSTRIAL DIAMOND ASSOCIATION OF AMERICA

J. Edgar Eubanks, Executive Director

3008 Millwood Avenue  
Columbia, South Carolina 29205  
(803) 252-5646

Founded: 1845

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

Importers and dealers in industrial diamonds and manufacturers of diamond tools. Conducts research and holds seminars on all facets of industrial diamond usage.

**Standardization  
Activities**

Develops standards for industrial diamonds. With the American Society of Manufacturing Engineers, it cosponsors American National Standards Institute (ANSI) Project B-67, Industrial Diamonds and Accessories for Their Use. Through this project, an American National Standard for Diamond Dressing Tools has been developed and approved. With the Grinding Wheel Institute, the association also cosponsors ANSI Project B-74.1, Identification Code for Diamond Wheel Shapes. Other American National Standards to which the association has cooperated include B-74.16, Checking the Size of Diamond Abrasive Grain, and B-74.17, Test for Bulk Density of Diamond Abrasive Grain.

In cooperation with NIST, the association developed a separate Commercial Standard for grading of diamond powder, known as CS261-63, Grading of Diamond Powder in Sub-Sieve Sizes.

IDAA's Toolmakers Industry Committee revises and updates the Handbook - Diamond Tool Shanks, compiled and published by the association since 1954.

**Availability**

Distributed directly and through ANSI

**Keywords**

diamonds; manufacturing; materials;

## INDUSTRIAL FABRICS ASSOCIATION INTERNATIONAL

Steve Warner, Operations Director

345 Cedar Building  
Suite 450  
St. Paul, Minnesota 55102  
(612) 222-2508

Founded: 1912

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Staff members and IFAI members actively participate on committees of ASTM, BOCA, ICBO, ISO, NFPA, FHWA, and USCG.

**Scope**

A trade association which has 22 product related divisions, ranging from the Architectural Fabric Structures Institute to the Truck Cover Division. Sixteen hundred member firms represent all levels of the industrial fabrics industry including fiber producers, weavers, coaters, finishers, and laminators.

**Standardization  
Activities**

The Camping Products Division, in cooperation with the Finishers and Dyers Division, developed a model flammability code for materials used in camping tentage, designated CPAI-84. The Tarpaulin Division has developed CPAI-63, a quality assurance standard for domestic cotton tarpaulins. The Architectural Fabric Structures Institute has developed ASI-77 as a guide to manufacturers, prospective users, architects, and regulatory agencies. This standard sets requirements for the materials, design, construction, and erection of these structures.

IFAI developed CPAI-CLI, which includes standard classifications and test methods for woven coated and/or laminated polyolefins.

CPAI-75 includes rate-of-burn specifications for sleeping bags, and CPAI-79 includes a listing of standard test methods for coated and laminated fabrics. The association is now in the process of developing a standard for the thermal efficiency of window treatment products.

**Availability**

Sold directly

**Formerly**

Canvas Products Association International

**Keywords**

textiles; tents; tarpaulins; fabric structures; flammability;

**INDUSTRIAL FASTENERS INSTITUTE**

C.E. Scofield, Managing Director

1050 East Ohio Building  
Cleveland, Ohio 44114  
(216) 241-1482



Founded: 1931

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

An association of North American manufacturers of bolts, nuts, screws, rivets, and all types of special industrial fasteners. Advances fastener technology and application engineering.

**Standardization  
Activities**

Works cooperatively with national and international technical organizations, developing fastener standards and technical practices assuring users of maximum engineering efficiency and reliability, at minimum cost of assembly. There are more than 500,000 standard and 3,000,000 special sizes, kinds, and shapes of fasteners and engineering components.

Publishes the Fastener Standards Book, a major reference book for users of mechanical fasteners, this is a collection of pertinent standards which documents all types of general purpose commercial industrial fasteners. The standards book is used by design engineers and production managers in all industries. The Sixth Edition was published in June of 1988.

In 1983, IFI published the second edition of Metric Fastener Standards which presents the internationally agreed upon system of engineering standards for commercial and industrial metric fasteners.

**Availability**

Distributed directly and through IHS

**Formerly**

American Institute of Bolt, Nut, and Rivet Manufacturers

**Keywords**

fasteners; metric; manufacturing;

**INDUSTRIAL GAS CLEANING INSTITUTE, INC.**

Jeffrey C. Smith, Executive Director

1707 L Street, NW  
Suite 570  
Washington, DC 20036  
(202) 457-0911

FAX: (202) 331-1388

Founded: 1960

Standards Staff: 1

**Type of  
Organization**

Trade Association  
Standards Developer

<b>Scope</b>	A national trade association of companies that manufacture air pollution control equipment.
<b>Standardization Activities</b>	Standards concern electrostatic precipitators, fabric filters, mechanical collectors, and other air pollution control equipment.
<b>Availability</b>	Sold directly; publication list available upon request
<b>Keywords</b>	air pollution; industrial equipment;

**INDUSTRIAL PERFORATORS ASSOCIATION**

Jean McKey, Secretary-Treasurer

710 North Plankinton  
Suite 622  
Milwaukee, Wisconsin 53203  
(414) 271-2263

Founded: 1961

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Active in standardization of perforated materials through pertinent ASTM and ISO Committees.
<b>Scope</b>	A national trade association of manufacturers engaged in the production of perforated materials. Develops programs and activities to assist members achieve managerial expertise in marketing, manufacturing and other areas of company operations.
<b>Standardization Activities</b>	Originally developed standards for products used in the mining and aggregate industries. This led to the publication of a series of standards widely used in these industries.  Finalized a series of standards for Industrial Perforated Metal which has been adopted and published by ASTM Committee E 29.  Active in ISO/TC 24 which is involved with setting metric standards for perforated materials on a world wide basis. Also works closely with EUROPERF, which is the Trade Association of European Perforators.
<b>Keywords</b>	perforators; screen; punched-plate; industrial equipment;

## INDUSTRIAL SAFETY EQUIPMENT ASSOCIATION

Frank E. Wilcher, Jr., President

1901 North Moore Street  
Arlington, Virginia 22209  
(703) 525-1695

Founded: 1934

Standards Staff: 3

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

75 members  
Representation on 20 ANSI Committees  
Work with ISO and ASTM Committees

**Certification**

The membership of ISEA established an independent organization, the Safety Equipment Institute (SEI), in 1981. SEI administers a nongovernmental program to test and certify industrial safety products. SEI certification is voluntary, requiring annual product testing and quality assurance audits at manufacturing sites. Current programs include industrial helmets, eye and face protective products and emergency eyewash and shower equipment. Certification of respirators is performed by NIOSH and MSHA.

**Secretariats**

ANSI Z308.1 and Z358.1

**Scope**

A nonprofit organization of manufacturers of personal protective products for industrial environments. Dedicated to the safety of workers who rely on protective equipment and to the welfare of the safety equipment industry. Membership is international.

**Standardization  
Activities**

Works for the development of standards which assure the high performance of safety products. Provides manufacturers input in standards development through official representation to such organizations as American National Standards Institute, National Fire Protection Association, National Society for the Prevention of Blindness, and American Society for Testing and Materials. Product categories involved in standard activities include: emergency eyewash and safety shower, eye and face protection, fall protection, head protection, hearing protection, industrial first aid, industrial safety and health instruments, industrial warning devices, machinery guards, respiratory protection, safety cans, and safety wearing apparel.

**Formerly**

Industrial Safety Equipment Manufacturers Association of the United States of America (1936)



**Keywords** safety; personal protection; industrial equipment;

**INDUSTRIAL TRUCK ASSOCIATION**

William J. Montwieler, Executive Director

1750 K Street, NW  
Suite 210  
Washington, DC 20006  
(202) 296-9880 FAX: (202) 296-9884

Founded: 1952

**Type of Organization** Trade Association  
Standards Developer

**Scope** Manufacturers of powered industrial trucks, tractors,  
and their major components.

**Standardization Activities** Through its General Engineering Committee, develops a  
Manual of Recommended Practices which is used as source  
material to advance safety and efficiency in the  
design, manufacturing, and use of industrial trucks.  
Cooperates with the American National Standards  
Institute, ASME Standards Committees, and ISO, as well  
as with the National Fire Protection Association, in  
matters affecting powered industrial trucks.

**Availability** Sold directly

**Formerly** Electric Industrial Truck Association (1951)

**Keywords** industrial trucks; industrial equipment; tractors; fork  
lift;

**INSTITUTE FOR INTERCONNECTING AND PACKAGING ELECTRONIC CIRCUITS**

Raymond E. Pritchard, Executive Director

7380 North Lincoln Avenue  
Lincoln Wood, Illinois 60646  
(708) 677-2850 Telex: 214 814 IPC UR  
FAX: (708) 677-9570

Founded: 1957 Standards Staff: 7

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1957  
1,800 member companies participating in standards

activities  
75 active standards  
Standards and specifications processed through ANSI  
Draft standards available to IPC representatives and  
applicable organizations

**Standards  
Designation**

IPC

**Government  
Adoption**

The Department of Defense has adopted 14 standards,  
with others pending.

**Certification**

Qualification programs being developed

**Scope**

An international trade association of 1,800 member companies representing manufacturers and users of electronic interconnection devices. Also includes key suppliers to the industry, and representatives from over 60 government agencies.

**Standardization  
Activities**

Standards used worldwide by producers and users of rigid and flexible printed boards, flat cable, hybrid circuits, and various discrete wiring techniques.

Works closely with many organizations including UL, DOD, ANSI, EIA, and JEDEC. Members actively serve on a wide range of military and industry standards committees including the IEC, ANSI, EIA, ISHM, IEEE, and UL. Technical input solicited from and supplied by the 1,800 member companies of the IPC, and key government agencies and industry organizations.

IPC standards are used throughout the electronics industry in the interconnecting and packaging of electronic circuits. Standards applied to business, communications, consumer electronics, computers and peripherals, the military, industrial electronics, and instrumentation.

Standards cover dimensions and tolerances, acceptability levels and definitions and terms. Widely used IPC standards include a compilation of visual quality standards; design and performance documents for soldering single, two-sided and multi-layered printed wiring boards; solderability standards and surface mount documents. In addition, conducts round robin testing programs for state-of-the-art product performance including testing of multi-layer boards, evaluation of plated through-holes, fine lines, and laminates and alternatives to CFCs.

**Availability**

Distributed directly and through ANSI, Global, and IHS

**Formerly**

Institute of Printed Circuits (1977)

**Keywords**

printed circuits; printed boards; printed wiring boards; printed circuit boards; flat cable; electronics; electrical equipment; hybrids;

**INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS**

Andrew G. Salem, Staff Director of Standards

445 Hoes Lane  
Post Office Box 1331  
Piscataway, New Jersey 08855-1331  
(201) 562-3800

Founded: 1884

**Type of  
Organization**

Professional Society  
Standards Developer

**Standards  
Development**

30,000 members active in standards development  
580 standards; 530 standards projects underway  
Many processed through ANSI  
An ANSI accredited organization

**Standards  
Designations**

IEEE Std xx-year

**Government  
Adoption**

30 IEEE standards have been adopted by the federal government.

**Secretariats**

16 American National Standards Committees (some as co-secretariat)

**Scope**

A transnational professional society of 315,000 engineers and scientists in electrical engineering, electronics, and allied fields.

**Standardization  
Activities**

The Standards Board has overall responsibility for standards development and approval, and the responsibility for participation in and cooperation with other organizations on standards issues. The Board currently has nine standing committees that provide assistance and make recommendations, offering expert advice concerning procedural and developmental matters, new opportunities, and future avenues to be explored.

IEEE develops and publishes standards on a variety of topics, including communications, computer languages and software engineering, electrical safety, and commercial and industrial power systems. All IEEE standards are prepared by dedicated expert volunteers acting in their own fields of interest; yet are



approved by a widespread, strict consensus process. Proposed standards are examined by the review committee to ensure that a proper balance of interested parties exists, and that coordination and balloting procedures have been maintained.

**Availability** Distributed directly and through Global, IHS and Infonorme London Information (ILI).

**Formerly** Formed by a merger in 1963 of the American Institute of Electrical Engineers and the Institute of Radio Engineers.

**Keywords** communications; computers; electric power, local area networks (LANs); electrical safety; quality assurance; software;

#### INSTITUTE OF ENVIRONMENTAL SCIENCES

Janet A. Ehmann, Executive Director

940 East Northwest Highway  
Mount Prospect, Illinois 60056  
(708) 255-1561 FAX: (708) 255-1699

Founded: 1954

**Type of Organization** Professional Society  
Works through other organizations to develop standards

**Scope** Devoted to the development and promotion of recommended practices, standards, specifications, research, simulation techniques, testing techniques, contamination control techniques, and the development of design criteria for equipment operation. The Institute is a member of the International Committee of Contamination Control Societies (ICCCS). Recommended practices have been developed by its Contamination Control Division in several areas.

**Standardization Activities** Considers and investigates matters relating to units and standards, as well as recommended practices, pertaining to, or applicable in, environmental engineering. Cooperates with other national technical organizations in matters regarding environmental standards, testing and engineering. Cosponsors meetings or group efforts with such organizations as American Society for Testing and Materials, American Institute of Aeronautics and Astronautics, Institute of Electrical and Electronics Engineers, and the Department of Defense. Sponsors a representative to the International Electrotechnical Commission concerned

with international standardization of environmental test methods.

**Formerly** American Association for Contamination Control (1973)  
**Keywords** testing; contamination control; environment; quality assurance;

**INSTITUTE OF INDUSTRIAL ENGINEERS**

Gregory Balestrero, Executive Director

25 Technology Park  
Norcross, Georgia 30092  
(404) 449-0460

Founded: 1948

Standards Staff: 1

**Type of Organization** Professional Society  
Standards Developer

**Standards Development** 50 volunteer members active in standards development  
Standards processed through ANSI; All are designated American National Standards  
Draft standards and revisions available for review by non-members

**Standards Designation** ANSI Z94

**Secretariats** American National Standards Committee Z94, Industrial Engineering Terminology

**Scope** An international society devoted to productivity improvement through the application of industrial engineering techniques. Serves more than 40,000 members in 87 countries. Provides a unique cross-section of products and services including books, journals, magazines, films, seminars, conferences, and certification.

**Standardization Activities** Focuses on the terms and phrases used in the practice of industrial engineering. These terms and phrases are developed through 17 subcommittees that represent the various disciplines of industrial engineering.

**Availability** Distributed directly and through ANSI.

**Formerly** American Institute of Industrial Engineers

**Keywords** industrial engineering; productivity; manufacturing;

## INSTITUTE OF MAKERS OF EXPLOSIVES

Frederick P. Smith, President

1120 19th Street, NW  
Suite 310  
Washington, DC 20036  
(202) 429-9280

Founded: 1913

**Type of  
Organization**

Safety Association  
Standards Developer

**Standards  
Development**

Standards developer since 1913

**Standards  
Designation**

IME prefix

**Government  
Adoption**

IME recommendations are contained in federal and state regulations.

**Scope**

The safety association of the commercial explosives industry in the United States and Canada. Member companies include manufacturers of commercial explosives, fuses, and blasting detonators.

**Standardization  
Activities**

Develops standards relating to safety in the transportation, storage, handling and use of commercial explosive materials. Works closely with regulatory agencies at the international, federal, state and local levels.

**Availability**

Sold directly

**Keywords**

explosives; safety materials;

## INSTITUTE OF NUCLEAR MATERIALS MANAGEMENT

John E. Messervey, Executive Director

8600 West Bryn Mawr Avenue  
Suite 720 South  
Chicago, Illinois 60631  
(312) 693-0990

Telex: 910-221-5870

Founded: 1958

**Type of  
Organization**

Professional Society  
Works through other organizations to develop standards



**Representation** Approximately 125 members active in INMM standardization including representatives on standards committee of ANSI, ASTM and others.

**Certification** Nuclear materials specialists and nuclear materials interns are certified by examination and reviewed by a certification committee.

**Secretariats** ANSI N14, Transportation of Fissile and Radioactive Materials  
ANSI N15, Methods of Nuclear Material Control

**Scope** A nonprofit organization of individuals working in governmental, industrial and academic institutions where nuclear materials are utilized. The Institute advances the application of principals of accounting, auditing, engineering, mathematics, physics, statistics, and physical security for the safeguarding of nuclear fuel facilities. INMM also promotes research in the field of nuclear safeguards, materials accounting, materials control, physical protection, waste management, and transportation.

**Standardization Activities** Directed toward meeting requirements of industry related to safeguarding nuclear materials. Principal activities include serving as ANSI secretariat for N14 and N15. INMM standards are used extensively in Department of Energy and Department of Defense facilities, as well as government contractors and NRC licensees. In addition, INMM standards are used world-wide by related organizations and commercial enterprises.

**Keywords** nuclear materials safeguards; nuclear materials waste management; nuclear material transportation; defense; energy; safety; environment;

#### INSTITUTE OF TRANSPORTATION ENGINEERS

Thomas W. Brahms, Executive Director

525 School Street, SW  
Washington, DC 20024  
(202) 554-8050

Telex: 467943 WSH CI  
FAX: (202) 863-5486

Founded: 1930

Standards Staff: 2

**Type of Organization**

Scientific Society  
Standards Developer

**Standards Development**

300 members participate in standards development  
27 active equipment standards and recommended practices

None processed through ANSI  
Draft standards available for review

# INSTRUMENT SOCIETY OF AMERICA

67 Alexander Drive  
P.O. Box 12277  
Research Triangle Park, North Carolina 27709  
(919) 549-8411                Telex: 802-540  
                                    FAX: (919) 549-8288

Founded: 1945

Type of Organization	Technical Society Standards Developer
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<b>Standards Development</b>	Standards developer since 1945 3,200 members participating in standards activities 79 active standards; 125 active committees Standards are processed through ANSI Draft standards available for review
<b>Standards Designation</b>	ISA-S, Instrument Society of America Standard ISA-RP, Instrument Society of America Recommended Practice
<b>Government Adoption</b>	The Nuclear Regulatory Commission has adopted five Instrument Society of America Standards.
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Secretariats</b>	Secretariat of ISO/TC 10/SC 3, Graphical Symbols for Instrumentation, IEC SC42L Combustible Gas Detectors and IEC SC65B Elements of Systems. ISA also serves as the administrative secretariat for U.S. TAG for IEC/TC 65, Industrial Projects Measurement and Control and IEC/TC 66 on Electronic Measuring Equipment, and sponsors the U.S. TAG for IEC/TC 31 SC/31G on intrinsic safety.
<b>Scope</b>	Chartered as a nonprofit educational organization, its membership comprises more than 41,000 practitioners, scientists, educators, and students worldwide involved in industrial instrumentation and control technology.  Advocates the advancement of the technology of process measurement and control instrumentation through education. Augments the exchange of knowledge and information through a wide variety of publications and by developing consensus industry standards.
<b>Standardization Activities</b>	Prepares and promotes national and international standards which are competent, unbiased, widely applicable, and authoritative. Standards and practices committees span a wide spectrum of industries and technical interests dealing with measurement and control instrumentation. Topics include symbology, computer hardware and software, intrinsic safety, thermocouples, flowmeters, transducers, rotameters, face-to-face dimensions of control valves, control valve sizing, control valve capacity test procedures, manifold designs, pneumatic circuits, annunciators, dynamic response testing, specification forms, piping and instrument drawings, instrumentation for nuclear and fossil fuel power plants, installation practices, terminology, composition analyzers, environmental conditions for digital systems, strain gages, liquid level gages, batch control, combustible and toxic gas detectors, programmable electronic systems, fire



detection instruments, and continuous weighing instrumentations.

**Availability** Distributed directly and through ANSI, IHS, and Global

**Keywords** instrument; measurement; process measurement; control telemetry; metrology; analysis; automatic controls; scientific instrumentation; valves; industrial equipment;

#### INSULATED CABLE ENGINEERS ASSOCIATION

E. E. McIlveen, Secretary-Treasurer

P.O. Box 440  
South Yarmouth, Massachusetts 02664  
(508) 394-4424

Founded: 1925

**Type of Organization** Trade Association/Technical Society  
Standards Developer

**Standards Development** Standards developer since 1925  
100 members participating  
30 active standards  
Some standards processed through ANSI

**Standards Designation** ICEA, ICEA/NEMA, or ICEA/IEEE prefix

**Government Adoption** FAA, GSA, Air Force, Navy, Rural Electrification Administration, and others

**Certification** No certification, qualification, or accreditation programs

**Scope** An international nonprofit association of cable engineers which develops and publishes standards for electrical power, control, instrumentation, communications, and portable cables. The principal standards writing authority for industrial and utility cables in North American and recognized throughout the world. Membership confined to engineers who are on the technical staffs of concerns engaged in the manufacture of insulated electrical wires and cables, and who are qualified by technical training or experience to contribute to the Association's activities.

**Standardization Activities** Publishes recommended practices and treatises resulting from engineering research conducted by the Association. Publication on cable amperages recognized as joint standards by the National Electrical Manufacturers

Association (NEMA), Institute of Electrical and Electronic Engineers (IEEE) and the American National Standards Institute (ANSI).

**Availability** Distributed through designated Secretariats. Listings available from Headquarters.

**Formerly** Insulated Power Cable Engineers Association

**Keywords** electrical cable; insulated cable; electrical equipment, communications; cable;

**INSULATED STEEL DOOR SYSTEMS INSTITUTE**

Allen P. Wherry, Managing Director

30200 Detroit Road  
Cleveland, Ohio 44145  
(216) 899-0010

Telex: 98-5559

Founded: 1975

Standards Staff: 3

**Type of Organization**

Trade Association  
Standards Developer

**Standards Development**

Seven member companies participate in standards development  
Nine active standards including three ANSI Standards

**Government Adoption**

The ISDSI standards have been adopted by numerous government agencies.

**Certification**

No certification, qualification, or accreditation programs

**Scope**

A national trade association representing U.S. companies engaged in the manufacture of insulated steel door systems (consisting of door, frame, and total perimeter seal) which are specially designed and marketed for the residential market and tested to the Institute standards.

**Standardization Activities**

Promulgates minimum standard specifications for the manufacture of insulated steel door systems to assure quality products for the residential market. Works closely with numerous government agencies including Department of Housing and Urban Development, Department of Navy, Corps of Engineers, and the Farmers Home Administration. Also cooperates with various code organizations and with the National Association of Home Builders, the Door & Hardware Institute, and Builders Hardware Manufacturers Association.

**Availability** Distributed directly

**Keywords** doors; buildings;

**INTER-SOCIETY COLOR COUNCIL**

Dr. Dan C. Rich, Secretary

c/o Applied Color Systems  
Post Office Box 5800  
Princeton, New Jersey 08540  
(609) 924-2189

Founded: 1933

**Type of Organization** Technical Society  
Works through other organizations to develop standards

**Scope** Coordinates work leading to the description and specification of color, and promotes the practical application of such work to color problems arising in science, art, and industry. Membership consists of 24 delegates from national societies and individual members, all with a common interest in color.

**Standardization Activities** Not a standardizing body, but many of the results of its work are incorporated by its member bodies into standards which they issue or sponsor. This work is carried out by subcommittees of the ISCC Problems Committee.

Examples of preliminary work done within the ISCC include the ISCC-NIST Method of Designating Colors and a Dictionary of Color Names (NIST Circular 553); designations of filters for theatrical lighting; definitions of color terms; recommendations for illuminating and viewing conditions in the colorimetry of reflecting materials; standard methods for mounting textile samples for colorimetric measurement; standard practice for the visual examination of small color differences; the determination of sets of maximally different nonfluorescent colors; identification of pigments in use in artists' paint leading to a method for lightfastness determination and an artists' paint specification.

**Keywords** color; colorimetry; instruments; testing;



## INTERNATIONAL ASSOCIATION OF ELECTRICAL INSPECTORS

W. I. Summers, Executive Director

930 Busse Highway  
Park Ridge, Illinois 60068  
(312) 696-1455

Founded: 1928

Standards Staff: 2

### **Type of Organization**

Trade Association  
Works through other organizations to develop standards

### **Representation**

20 members and 20 alternates on the National Electrical Code promulgated by the National Fire Protection Association. Also participates on the ANSI C80, C73 and ANSI C2 committees; The UL Standards Review Council; and NFPA committees 70A, 70B, 70E, and 79.

### **Certification**

Member of the National Board of Governors for the certification of electrical inspectors, administered by the Educational Testing Service, Princeton, New Jersey.

### **Scope**

Promotes cooperation between inspectors, the electrical industry, and the public. Collects and disseminates information relative to the safe use of electricity. Over 20,000 members including inspectors, contractors, electricians, consulting engineers, utilities, and testing labs. Seventy-five percent of its meetings and publication programs are devoted to standardization activities. Maintains liaison in its code activities with its members in Canada and Japan.

### **Standardization Activities**

Cooperates in the formulation of standards for the safe use of electrical materials, devices, and appliances. Also promotes the uniform understanding and application of the National Electrical Code, as well as other electrical codes and standards. Maintains liaison with the federal government in many standardization activities, particularly for the use and application of the National Electrical Code. Cooperates with the Department of Housing and Urban Development, the Consumer Product Safety Commission, as well as with the Occupational Safety and Health Administration (OSHA) of the Department of Labor. Also serves on various NFPA, ANSI, and UL standards writing committees.

### **Keywords**

electrical code; inspection; safety; building;  
government officials;

## INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

Ed Wachteit, Executive Director

20001 Walnut Drive South  
Walnut, California 91789  
(714) 595-8449

Founded: 1926

Standards Staff: 1

**Type of  
Organization  
organizations**

Trade Association  
Standards Developer and works through other  
to develop standards

**Standards  
Development**

Product and Installation standards are processed  
through IAPMO's Annual Conference  
Four Z124 standards are processed through ANSI  
Draft standards are available for review  
57 standards are currently published

**Standards  
Designation**

PS, IAPMO Product Standards  
IS, IAPMO Installation Standards

**Government  
Adoption**

The Uniform Plumbing Code is used in over 2,500  
jurisdictions in the United States and is the mandatory  
code for 13 states.

**Certification**

A monthly listing of 10,000 products certifies that  
products have been tested and meet the requirements of  
applicable standards and the Unified Plumbing Code.  
Certification must be updated and renewed annually and  
manufacturers are subject to reinspection during the  
year of listing.

**Secretariats**

ANSI Committee Z124

**Scope**

Established by and for inspection officials of cities,  
counties, and states with the goal of bringing about  
uniformity in plumbing codes and their interpretation.  
Cosponsors the Uniform Mechanical Code with the  
International Conference of Building Officials.

**Standardization  
Activities**

Presently writes installation and product standards  
for conventional plumbing products. Promulgates both  
installation and material standards for plumbing in the  
mobile home and recreational vehicle industry.  
Standardization activities are administered by the  
IAPMO Standards Committee and IAPMO Mobile Home  
Standards Committee. Works with the Department of  
Housing and Urban Development, the Department of Labor,  
and the National Institute of Standards and Technology.

**Availability**

Sold directly

<b>Formerly</b>	Los Angeles Area Plumbing Inspector Association (1926) Plumbing Inspectors Association of Southern California (1929) Plumbing Inspectors Association of California (1930) Pacific Coast Plumbing Inspectors Association (1934) Western Plumbing Officials Association (1945)
<b>Keywords</b>	building code; plumbing code; mobile home; recreational vehicle; safety building; government officials;

**INTERNATIONAL ASSOCIATION OF WIPING CLOTH MANUFACTURERS**

	Bernard Brill, Executive Vice President  7910 Woodmont Avenue Suite 1212 Bethesda, Maryland 20814  Founded: 1932
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Two active standards
<b>Government Adoption</b>	General Services Administration has adopted Wiping, Cotton, and Cotton-Synthetic dated October, 1981.
<b>Scope</b>	Focuses on common problems and opportunities in the management, promotion, research and development of the wiping materials, used clothing, and textile recycle industry.
<b>Standardization Activities</b>	Publishes Specifications for Wiping Cloths for use by all phases of industry that use wiping cloths in their operation. Specifications cover material, content, and grade of wiping cloths.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Sanitary Institute of America National Association of Wiping Cloth Manufacturers
<b>Keywords</b>	rags; textiles;



## INTERNATIONAL BRIDGE, TUNNEL AND TURNPIKE ASSOCIATION

Neil D. Schuster, Executive Director

2120 L Street, NW  
Washington, DC 20037  
(202) 659-4620

Founded: 1932

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	National Committee on Uniform Traffic Control Devices National Fire Protection Association
<b>Scope</b>	A nonprofit association serving the needs of toll and tax supported bridges, tunnels, and highways. Concerned with the improvement of highway transportation in general. Members operate over 340 toll facilities with a combined value of approximately \$50 billion.
<b>Standardization Activities</b>	Works closely with the government and allied agencies and associations, such as the National Committee on Uniform Traffic Control Devices and the National Fire Protection Agency, to promote safety and improvement in highway transportation.
<b>Keywords</b>	construction; transportation; tunnels; bridges; highways;

## INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS

J.J. Barry, International President

1125 15th Street, NW  
Washington, DC 20005  
(202) 833-7000

Founded: 1981

Standards Staff: 6

<b>Type of Organization</b>	International Labor Union Works through other organizations to develop standards
<b>Representation</b>	Sixty members active in standards development on committees of NFPA, ANSI, IEEE, ASTM, and other organizations.
<b>Scope</b>	Represents one million workers in all branches of the electrical industry.
<b>Standardization Activities</b>	Members are active on all code panels of NFPA 70, The National Electrical Code, and in other organizations

that develop standards for electricity work.

Although not a standard making body, the IBEW cooperates and participates in the work of standard making bodies which might impact membership.

**Keywords** union; electrical equipment; electric power;

#### INTERNATIONAL CARGO GEAR BUREAU

Charles G. Visconti, President

17 Battery Place  
New York, New York 10004  
(212) 425-2750

Founded: 1966

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Scope** A nonprofit membership corporation of makers and users of cargo handling equipment. Provides recognized registration, inspection, certification, documentation, design evaluation, and consultation services throughout the world for materials handling equipment ashore and afloat including shipboard cargo gear, cranes, derricks, cargo containers, road vehicles, and related devices.

**Standardization Activities** Monitors and participates in standards development activities of international organizations including the International Maritime Organization (IMO) and ISO, ship classification societies, and national standards bodies.

**Keywords** cargo handling; industrial equipment; transportation;

#### INTERNATIONAL CITY MANAGEMENT ASSOCIATION

William H. Hansell, Jr., Executive Director

1120 G Street, NW  
Washington, DC 20005  
(202) 626-4600

Founded: 1914

**Type of Organization** Professional Association  
Standards Developer

<b>Scope</b>	City managers, county managers, municipal administrators, assistants and directors of councils of governments. Provides state-of-the-practice information to local governments through sale of books, reports, and subscription services. Sponsors training.
<b>Standardization Activities</b>	Regularly publishes information on effectiveness and efficiency measures as part of its work in increasing the proficiency of municipal administrators and strengthening the quality of urban government through professional management.
<b>Formerly</b>	International City Managers Association (1969)
<b>Keywords</b>	municipal management; city management; facilities management; government officials;

**INTERNATIONAL COALITION FOR PROCUREMENT STANDARDS**

Laurel Davis O'Brien, ICPS Coordinator

c/o ASTM  
 1916 Race Street  
 Philadelphia, Pennsylvania 19103-1187  
 (215) 299-5400 FAX: (215) 977-9679

Founded: 1979

<b>Type of Organization</b>	Professional Society Works through other organizations to develop standards
<b>Scope</b>	Brings representatives of national and international purchasing associations and individuals with an interest in purchasing standards together in an effort to communicate, cooperate, and coordinate activities of recognized standards organizations to develop voluntary consensus standards. Promotes and encourages the professional development of its members.
<b>Standardization Activities</b>	Encourages participation by its members in the activities of all consensus standards organizations; initiates, through interaction with these consensus standards organizations, the formulation of specifications, standards, and test methods where none currently exist; aids in the revision and updating of existing specifications, standards, and test methods; and cooperates with other members of the Coalition to avoid duplication of effort.
<b>Keywords</b>	purchasing; procurement;



## INTERNATIONAL COMMUNICATIONS INDUSTRIES ASSOCIATION

Kenton Pattie, Executive Vice President

3150 Spring Street  
Fairfax, Virginia 22031  
(703) 273-7200

Founded: 1939

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	American National Standards Committee PH7
<b>Scope</b>	Commercial trade association for manufacturers, producers, and dealers of audio and visual communications products in the area of projection, as well as video and computers. Membership includes 800 domestic companies and more than 100 international members.
<b>Standardization Activities</b>	Seventy-five members active on working committees, subcommittees and task forces of Committee PH7 on Instructional Audio-Visual Systems Standards. Standards developed through PH7, issued through ANSI.
<b>Formerly</b>	National Association of Visual Education Dealers (1939-1947) National Audio-Visual Association (1947-1983)
<b>Keywords</b>	audio-visual; visual; communications;

## INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS

G. David Tayco, Director Administrative Services

5360 South Workman Mill Road  
Whittier, California 90601  
(213) 699-0541

Founded: 1922

<b>Type of Organization</b>	Professional Association Standards Developer
<b>Standards Development</b>	Developer of 14 codes for all aspects of building construction Invokes nearly 1,000 standards of ASTM, UL, NFPA, ANSI and others
<b>Standards Designation</b>	Uniform Building Codes

<b>Government Adoption</b>	Jurisdictions which enforce the Uniform Building Code and its related documents are located in various states having a combined population of over 89 million, from Michigan and Indiana in the east to the western states including Alaska and Hawaii.
<b>Certification</b>	Provides a voluntary certification program. Code enforcement categories of certification include building inspector, electrical inspector, plumbing inspector, mechanical inspector, combination inspector, rehabilitation/conservation inspector, fire inspector, and plans examiner. Special certification includes reinforced concrete inspection, prestressed concrete inspection, structural masonry inspection, and structural steel/welding inspection.
<b>Secretariats</b>	National Evaluation Service
<b>Scope</b>	Objective is to furnish a complete set of Uniform Codes for state, county, and city administrative authorities responsible for enforcement of building laws to ensure a high level of safety to life from fire, structural, and exit hazards. Maintains and improves the codes on a continuous basis.
<b>Standardization Activities</b>	Publishes the Uniform Building Code, Uniform Mechanical Code, Uniform Fire Code, and related documents setting forth minimum standards for safe construction in buildings and structures. Also develops standards for acceptance of new products through research activities. Issues recommendations to the member jurisdictions in order that manufacturers may obtain uniform recognition of their new products.
<b>Availability</b>	Sold directly
<b>Formerly</b>	Pacific Coast Building Officials Conference (1922) International Conference of Building Officials (1958)
<b>Keywords</b>	building code; mechanical code; fire code; solar; solid fuel; safety; construction; building; government officials; energy conservation; building conservation;

#### INTERNATIONAL DISTRICT HEATING AND COOLING ASSOCIATION

Clinton W. Phillips, P.E., Director, Technology and Standards Division

1101 Connecticut Avenue, NW  
Suite 700  
Washington, DC 20036  
(202) 223-4922

FAX: (301) 774-0949

Founded: 1909

Standards Staff: 5

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

40 members serve on standards committees of ASTM, ASHRAE, ANSI, AGA, and others.

**Scope**

Five hundred members, utilities, municipalities, universities, institutions, manufacturers, consultants, engineers, government officials, and others working in the district heating and cooling/cogenerated heat and power (DHC/CHP) industry. Serves worldwide interests in DHC/CHP, particularly in the United States and Canada. Most commercial DHC/CHP systems, operated by investor owned utilities, are members of IDHCA. Provides a principal forum to exchange information and maintains a liaison with federal agencies and related professional organizations.

**Standardization  
Activities**

Currently developing 2 IDHCA/ANSI standards: Liquid Thermal Meter Standard and Steam Thermal Meter Standard.

Proposed IDHCA/ANSI Standard: Insulated Piping for District Heating and Cooling.

Publishes and updates the IDHCA code for Steam Metering. Also publishes the District Heating Handbook, a design guide reference for industry personnel that references applicable standards. Publishes guidelines that reference U.S. standards in Principles of Economical Heating, and the Unwin Chart of losses in steam piping systems. Makes comparisons of European and U.S. components for DHC/CHP systems and components.

Two standards committees and ten technical groups - Production, Distribution, Airports/Hospitals/Military Bases, R&D, Cooling, College/University, Measurement/Controls, Economics, and Development - review and comment on applicable standards.

**Availability**

Distributed directly

**Formerly**

International District Heating Association

**Keywords**

heating; cooling; district heating and cooling; cogenerated heat and power; energy; energy recovery; utilities;



## INTERNATIONAL ELECTRICAL TESTING ASSOCIATION

Mary Jordan, Executive Director

221 Red Rocks Vista Drive  
Post Office Box 697  
Morrison, Colorado 80465  
(303) 467-0526

Founded: 1972

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Acceptance and Maintenance Testing Specifications for electrical power distribution and utilization equipment.

**Standards  
Designation**

NETA ATS-1987 Acceptance Testing Specification  
NETA MTS-1989 Maintenance Testing Specification

**Government  
Adoption**

Specifications adopted by GSA, the Postal Service, and military departments

**Certification**

The International Electrical Testing Association is responsible for the certification of independent testing organizations and their technical personnel.

**Scope**

An international organization representing independent electrical power system testing and maintenance companies in areas of common interest, such as specifications for acceptance and maintenance testing, qualifying of technical personnel, qualifying of companies, NFPA and governmental committees, representation, etc.

**Standardization  
Activities**

Develops testing guidelines for electrical power transmission and utilization equipment, including: Automatic Reclosures and Sectionalizers, Capacitors, Circuit Breakers, Direct Current Systems, Disconnects, Emergency Systems, Fiber-Optic Cables, Ground Fault Systems, Instrument Transformers, Instrumentation, Metal Motor Control, Network Protectors, Outdoor Bus Structures, Power Cables, Power Transformers, Protective Relays, Rotating Machinery, Safety Equipment, Thermographic Testing, Short Circuit Studies and Overcurrent Coordination Studies, Surge Arrestors, Switchboard Assemblies, Switches, Systems. The specifications are based on ANSI, NEMA, and other industry consensus standards.

**Availability**

Distributed directly

**Formerly**

National Electrical Testing Association

**Keywords**                    electricity; certification; safety;

**INTERNATIONAL FABRICARE INSTITUTE**

Charles Riggott, General Manager

12251 Tech Road  
Silver Spring, Maryland 20904  
(301) 622-1900

Founded: 1972

Standards Staff: 10

**Type of Organization**            Trade Association  
Works through other organizations to develop standards

**Representation**                Represented on ASTM Textiles Committee, NFPA  
Drycleaning Committee, AATCC Drycleaning Committee, and  
ASTM Solvents Committee.

**Certification**                Certifies as drycleanable and/or launderable, fabrics,  
garments, draperies, etc., when they pass tests  
designated by ASTM, NFPA, and/or AATCC. Certifies new  
or used solvents as meeting ASTM specifications.

**Scope**                        An international association of 13,000 drycleaners  
and/or launderers.

**Standardization Activities**    Interested in, and active on, standards committees  
involved in quality control and safety as affects  
members and their customers.

**Formerly**                      American Institute of Laundering (1883)  
National Institute of Drycleaning (1907)

**Keywords**                    drycleaning; laundering; textiles; consumer products;

**INTERNATIONAL FENCE INDUSTRY ASSOCIATION**

Frederick G. Dempsey, Jr., CAE, Executive Vice  
President

5300 Memorial Drive  
Suite 116  
Stone Mountain, Georgia 30083

Founded: 1962

**Type of Organization**            Trade Association  
Works through other organizations to develop standards

**Representation**                ASTM Committee F14

<b>Scope</b>	Serves the entire fence industry in North America and 22 foreign countries. Membership includes installer contractors, wholesalers, manufacturers, and related fence industry business.
<b>Standardization Activities</b>	Members work with ASTM and Chain Link Fence Manufacturers Institute (CLFMI) to develop standards and specifications for fence products.
<b>Keywords</b>	fence; construction;

#### INTERNATIONAL INSTITUTE OF AMMONIA REFRIGERATION

	James E. Elsener, Executive Secretary
	c/o Smith, Bucklin and Associates 111 East Wacker Drive Suite 600 Chicago, Illinois 60601 (312) 644-6610 FAX: (312) 565-4658
	Founded: 1971
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standard Developer since 1976 One active standard, ANSI approved Available for review by members and non-members
<b>Standards Designation</b>	ANSI/IIAR 74-2-1984
<b>Government Adoption</b>	City of Columbus, Ohio has adopted IIAR 74-2 as part of the City Building Code.
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Secretariats</b>	IIAR is the ANSI designated secretariat for ANSI/IIAR 74-2-1984.
<b>Scope</b>	A not-for-profit organization formed to promote education, information and standards for proper and safe use of ammonia as a refrigerant. Introduces and encourages constructive educational efforts in the fields of design, safety, installation, operation, maintenance, application, and other subjects to furnish a better understanding of the use of ammonia as a refrigerant.



<b>Standardization Activities</b>	Developed and maintains ANSI/IIAR 74-2-1984, American National Standard for Equipment Design and Installation of Ammonia Mechanical Refrigeration Systems.
<b>Availability</b>	Distributed directly or through ANSI
<b>Keywords</b>	ammonia; refrigeration; CFC alternative; cooling;

#### INTERNATIONAL MASONRY INSTITUTE

	Ray Lackey, Executive Vice President
	823 15th Street, NW Washington, DC 20005 (202) 783-3908
	Founded: 1970
<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Participates in the standards activities of ASTM, ACI, ASCE, NFPA, and others.
<b>Scope</b>	Formed through a joint trust agreement between the Mason Contractors Association of America and the International Union of Bricklayers and Allied Craftsmen. Activities include promotion and national advertising for masonry construction, training of craftsmen, and development of areas related to masonry materials, design and construction.
<b>Standardization Activities</b>	Participates on committees involved in the development of standards associated with masonry and masonry construction including ASTM, ACI, ASCE, NFPA, and ANSI. Monitors and recommends changes To the national model codes: BOCA, ICBO, and SSBC.
<b>Keywords</b>	masonry; construction;

#### INTERNATIONAL MOBILE AIR CONDITIONING ASSOCIATION

	Frank Allison, Executive Director
	2100 North Highway 360 Suite 1300 Grand Prairie, Texas 75050 (214) 988-6081
	Founded: 1958

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	25 active standards None processed through ANSI
<b>Standards Designations</b>	IMACA prefix
<b>Government Adoption</b>	IMACA Standard 200 is in use by General Services Administration.
<b>Scope</b>	Serves system manufacturers, parts and service suppliers, distributors, and dealers in mobile air conditioning applications including auto, heavy truck, recreational vehicle, farm and off-highway vehicle, and bus. Programs include sales promotion, engineering standards, monthly magazine, technical papers, and legislative activities.
<b>Standardization Activities</b>	The Engineering Committee administers the standards program, currently consisting of 25 standards in print under the IMACA name. All standards are national in scope. The use of standards is voluntary and promoted through the national trade press and the IMACA monthly magazine.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Automotive Air Conditioning Association (1970)
<b>Keywords</b>	air-conditioning; mobile air-conditioning; transportation; automotive;

#### INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION

Linda Rogers, Technical Training Coordinator

1115 North Main Street  
Post Office Box 539  
Newark, New York 14513  
(315) 331-2182

FAX: (315) 331-8205

Founded: 1896

<b>Type of Organization</b>	Technical Society Standards Developer
<b>Standards Development</b>	42 active standards None processed through ANSI
<b>Standards Designations</b>	IMSA prefix

**Government  
Adoption**

IMSA Wire and Cable Specifications have been recognized by the Department of Transportation and the Bureau of Public Roads.

**Certification**

Offers certification in the Public Safety Fields of Traffic Signal Technician, Fire Alarm Technician, Signs and Markings Specialists, and Radio and Dispatcher certification.

**Scope**

A nonprofit, technical and educational association. Membership consists of 3,800 members in the United States, Canada, Mexico, and the free countries of the world actively engaged in the engineering, construction, maintenance and operation of electrical, electronic and graphic communication systems used in public safety services, such as fire and police alarms, traffic control, radio communications, street lighting, signs and markings and related systems. Develops standards and manuals for use by the members and industry. Collects and disseminates educational material. Encourages unification in public safety fields for the purpose of improving the efficiency of public safety services.

**Standardization  
Activities**

Develops standards for various types of signal and communications wire and cable which must meet the requirements of ASTM and Underwriters Laboratories. Maintains a Cable Committee which updates and revises standards. Participates on Technical Committees of the National Committee on Uniform Traffic Control Devices, the Institute of Transportation Engineers Technical Council Committee, and the National Fire Protection Association. The Federal Communications Commission for Fire and EMS Radio Service recognizes IMSA as the Fire Frequency Coordination Body.

**Availability**

Distributed directly

**Keywords**

electrical equipment; wire; cable; safety; communications;

**INTERNATIONAL PIPE ASSOCIATION**

Sue Lackner, Director of Membership

5411 East State Street  
Rockford, Illinois 61108  
(815) 399-8700

FAX: (815) 399-7279

Founded: 1983



<b>Type of Organization</b>	Educational Association Standards Developer
<b>Scope</b>	An international education association established to disseminate current and evolving technical information, to improve piping processes and to advance the quality and cost-effectiveness of piping technologies in industry.
<b>Standardization Activities</b>	Voluntary standards on pipe bending are developed by Association Committees.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	pipe bending; pipe fabrication; pipe joining methods;

**INTERNATIONAL SLEEP PRODUCTS ASSOCIATION**

Russell L. Abolt, Executive Vice President

333 Commerce Street  
Alexandria, Virginia 22314  
(703) 683-8371

Founded: 1915

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Scope</b>	Represents manufacturers of mattresses, bedsprings, and dual purpose sleep equipment as well as suppliers of machinery, raw and finished materials, components and other supplies, and services necessary to the manufacture of sleep products.
<b>Standardization Activities</b>	Since 1922, instrumental in the development of voluntary "size standards" for bedding products and components. These have included the NIST Simplified Practice Recommendation, R-2 series, issued as ANSI Standards, Z357.1-1981, superceded in 1989 by ISPA voluntary product dimensional guideline. Also co-sponsored Bar Code Marking Standard for the Furnishings Industry.
<b>Formerly</b>	National Association of Bedding Manufacturers
<b>Keywords</b>	bedding; mattresses; consumer products;

## INTERNATIONAL SOCIETY OF ARBORICULTURE

William P. Kruidenier, Executive Director

303 West University  
P.O. Box 908  
Urbana, Illinois 61801  
(217) 328-2032

Founded: 1924

<b>Type of Organization</b>	Professional Society Standards Developer
<b>Standards Development</b>	1 active standard Processed through ANSI
<b>Secretariats</b>	ANSI Committee Z133.1, Safety in Tree Care Operations
<b>Scope</b>	Individuals engaged in commercial arboriculture; city, state, national government employees, and others interested in shade tree welfare. Conducts research programs.
<b>Standardization Activities</b>	Fosters the use of a standard which provides safety criteria for workers and the public. This standard presents safety requirements for pruning, trimming, repairing, maintaining, and removing trees and for cutting brush and for the equipment used in such operations.
<b>Availability</b>	Distributed through ANSI
<b>Formerly</b>	International Shade Tree Conference
<b>Keywords</b>	arboriculture; horticulture; tree care; safety;

## INTERNATIONAL STAPLE, NAIL AND TOOL ASSOCIATION

Bernie J. Mezger, President

435 North Michigan Avenue  
Chicago, Illinois 60611  
(312) 644-0828

Founded: 1966

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	1 active standard ANSI approved

**Standards  
Designations**

ISANTA SNT prefix

**Scope**

An organization financed and directed by manufacturers of collated fasteners and power tools for driving them. Membership represents eighty percent of the pneumatic power tools and related fasteners produced in the world. Promotes and furthers the utilization of machine-applied staples, nails and similar fasteners and their power tools.

**Standardization  
Activities**

Maintains a Technology Committee which is responsible for the development of standards in performance, safety, code approvals, and technical coordination with government agencies, code bodies, volunteer standards organizations, and other related associations.

Develops standards on tool design and operation and guidelines on performance testing of fastened connections. Representatives participate in standards development of other organizations involving driven fasteners.

Cooperates with federal, state, and local governments in the application of standards and with voluntary public organizations and code bodies in establishing acceptable fastening criteria and product application.

**Availability**

Sold directly

**Formerly**

Industrial Stapling and Nailing Technical Association (1975)  
Industrial Stapling Manufacturers Institute (1972)

**Keywords**

fasteners; nails; staples; tools; power fastening; pneumatic fastening; industrial equipment; manufacturing;

**INTERNATIONAL TAPE/DISC ASSOCIATION**

Henry Brief, Executive Vice President

505 Eighth Avenue  
Floor 12A  
New York, New York 10018  
(212) 643-0620

FAX: (212) 643-0624

Founded: 1970

**Type of  
Organization**

Trade Association  
Standards Developer



<b>Standards Development</b>	Standards developer since 1978 Five current standards None processed through ANSI
<b>Standards Designations</b>	ITA-A prefix
<b>Scope</b>	An international trade association that represents companies of many nations in the consumer and industrial electronics sector, specifically tape and disc, both audio and video, as well as home entertainment firms related to tape/disc/audio/video.
<b>Standardization Activities</b>	The Audio Technical Committee is responsible for an ongoing standardization program in all aspects of audio and video tapes and discs. Five standards are currently active. These include standards for audio cassettes, 8 track cartridges, splicing tape and duplication guidelines for 8 track and 4 track cartridges, and Minimum Standards of Audio Tape Products. Committee members also participate on IEC, ISO, EIA, AES, SMPTE, and ANSI Committees.
<b>Availability</b>	By written request to the address above
<b>Formerly</b>	International Tape Association
<b>Keywords</b>	tape; cassette; audio; video; disc; communications; acoustics;

#### INVESTMENT CASTING INSTITUTE

	R. Russell Stratton, Executive Director  8350 North Central Expressway Suite M-1110 Dallas, Texas 75206-1602 (214) 368-8896  Founded: 1950
<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	ASTM, SAE
<b>Scope</b>	Provides an organization through which programs can be initiated to accelerate the growth of technology, as well as the market for investment castings. Membership consists of 165 foundries and 85 suppliers.
<b>Standardization Activities</b>	Cooperates with the British Investment Casters Technical Association, as well as the Aerospace

Material Specifications Division of the Society of Automotive Engineers, and the American Society for Testing and Materials. Publishes the Investment Casting Handbook.

**Keywords** investment castings; materials;

### IRRIGATION ASSOCIATION

R.C. Sears, Executive Vice President

1911 North Fort Myer Drive, Suite 1009  
Arlington, Virginia 22209  
(301) 524-1200

Founded: 1949

Standards Staff: 1

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** 1,200 members active in standards development

**Certification** Programs for Irrigation Designers, Contractors and Water Managers

**Scope** Represents manufacturers, distributors, contractors, and technical personnel involved with agricultural and landscape irrigation systems.

**Standardization Activities** Engages in standards activities for comparing components through testing. Provides standard developers with the criteria for comparing products. Cooperates with the International Organization for Standardization to insure that international irrigation standards fairly represent products manufactured in the United States. Maintains representation on committees of ANSI, ASAE, and ASME.

**Availability** Distributed directly

**Keywords** irrigation; water conservation; sprinklers; agriculture;

### JEWELERS VIGILANCE COMMITTEE

Joel A. Windman  
Executive Vice President and General Counsel

1185 Avenue of the Americas  
New York, New York 10036  
(212) 869-9505

Founded: 1912

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1913

**Government Adoption** Adopted by the Department of Commerce and the Federal Trade Commission.

**Scope** National organization supported by the jewelry industry, specializes in marking, labeling, terminology, and trade problems.

**Standardization Activities** Works with government to assist industry and consumers. Develops voluntary product standards in the areas of precious metals, precious stones, and watches. Standardization work contributed to Federal Trade Commission's development of Guides for the Jewelry Industry. Conducted and revised a standardization study on the National Gold and Silver Stamping Act.

**Availability** Distributed directly and through the Federal Trade Commission

**Formerly** American Jewelers Protective Association (1943)

**Keywords** jewelry; precious metals; precious stones; materials; consumer products;

**JOINT NEUROSURGICAL COMMITTEE ON DEVICES/DRUGS**

Dr. M. Salcman, Dr. R. Crowell, Cochairmen

c/o American Association of Neurological Surgeons  
22 South Washington Street  
Suite 100  
Park Ridge, Illinois 60068  
(312) 692-9500

Founded: 1974

**Type of Organization** Professional Society  
Works through other organizations to develop standards

**Representation** ASTM, AAMI, ANSI, FDA Advisory Panel, World Federation of Neurosurgical Societies

**Scope** An educational and advisory group sponsored by the American Association of Neurological Surgeons and the Congress of Neurological Surgeons to assist in the



writing of neurological standards by participating in the activities of standards developing organizations. Also active as an advisory group for such organizations as the American Medical Association, the American College of Surgeons, the FDA, and the U.S. Congress.

**Standardization  
Activities**

Coordinates participation in committees developing standards for materials, devices, and practices used by neurosurgeons. Current activities center on ASTM F4.05, Subcommittee on Neurosurgery, and Committees of the Association for the Advancement of Medical Instrumentation (AAMI). Standards of interest include: tissue adhesives, aneurysm clips, carotid clamps, cranial tongs, stereotactic devices, surgical microscopes, RF generators, transcutaneous electrical nerve stimulators, intracranial pressure-monitoring devices, and computed tomography practices. Monitors activities of ISO/TC 150/SC 3 and IEC/TC 62 through ASTM and AAMI.

**Formerly**

Merger of committees on Materials and Devices of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons (1974)

**Keywords**

medical devices; neurosurgery; materials;  
instrumentation; medical care;

**JUVENILE PRODUCTS MANUFACTURERS ASSOCIATION**

William L. MacMillan, Executive Director

66 East Main Street  
Moorestown, New Jersey 08057  
(609) 234-9155

Founded: 1962

Standards Staff: 3

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

American Society for Testing and Materials

**Certification**

Sponsors a certification program for play yards, high chairs, walkers, expandable gates and enclosures, carriages and strollers which provides a certification seal and directory listing for all products in compliance with ASTM Safety Specifications.

**Scope**

Association of manufacturers of juvenile furniture and accessories.

**Standardization  
Activities**

Advocates the use of ASTM Standards for performance / requirements for play yards, high chairs, walkers,

expandable gates and enclosures, carriages and strollers, full-sized baby cribs and crib cornerpost extensions.

**Keywords** juvenile furniture; consumer products;

**LABORERS INTERNATIONAL UNION OF NORTH AMERICA**

Angelo Fosco, General President

905 16th Street, NW  
Washington, DC 20006  
(202) 737-8320

FAX: (202) 737-2754

Founded: 1903

**Type of Organization** Labor Union  
Works through other organizations to develop standards

**Certification** Training facilities are set up throughout North America to gain a high competency level for members who are in the construction industry.

**Standardization Activities** Active in all model codes with continuous voting representation on the ASME A.40 Committee. Has a specific interest in standards development because of the health and safety of labor workers, as well as the public.

**Formerly** Prior to 1965 International Hod Carriers, Building and Common Laborers' Union of America

**Keywords** union; utilities; pipe installation; construction; safety;

**LASER INSTITUTE OF AMERICA**

Peter Baker, Executive Director

12424 Research Parkway  
Suite 130  
Orlando, Florida 32826  
(407) 380-1553

FAX: (407) 380-5588

Founded: 1968

Standards Staff: 1

**Type of Organization** Professional Society  
Standards Developer

**Representation** ANSI

**Secretariats** ANSI Z136 Committee on Laser Safety

<b>Scope</b>	A nonprofit membership organization devoted entirely to the educational advancement and promotion of the technology and applications of lasers. Conducts continuing education courses, seminars and technical symposia nationwide, and offers a variety of educational materials and publications.
<b>Standardization Activities</b>	Develops Standards on the Safe Use of Lasers. Provides guidance in hazard education and control measures to industry and health care facilities, and all personnel involved with lasers in manufacturing, communication, and medical applications. Details laser safety and training programs as well as medical surveillance. Provides protocols for the various conditions of eye and skin exposure and methods for determining the information required for hazard evaluation and control. These consensus standards have been adopted by the national and international federal and state regulatory bodies, including the military, as basic documents or inputs to IEC and WHO Standards dealing with Laser Safety.
<b>Keywords</b>	laser; safety; medical;

#### LEAD INDUSTRIES ASSOCIATION

Jerome F. Smith, Executive Director

292 Madison Avenue  
New York, New York 10017  
(212) 578-4750 FAX: (212) 684-7714

Founded: 1928

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	75 members active in standardization activities Represented on committees of ASTM, ANSI, NIST, ISO, ACS, NACE, AWS, and others.
<b>Scope</b>	A nonprofit trade association representing all segments of the lead industry. Serves as the industry's market development arm by promoting increased use of lead and its end-products in a cost-effective and environmentally sound manner.
<b>Standardization Activities</b>	Maximizes the effectiveness of its representatives on national standards committees. Participates in developing standards for noise control, radiation protection, waste disposal, waterproofing, ceramics, solder, plastics, and batteries.



Committees monitor and assist the work of standards developing bodies within their areas of interest by designating committee members for liaison and coordination with appropriate code bodies.

**Keywords** nuclear; noise control; solder; lead; materials;

#### LIBRARY BINDING INSTITUTE

Sally Brauer, Executive Director

8013 Centre Park Drive  
Austin, Texas 78754  
(512) 836-4141

Founded: 1935

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

LBI Standard for Library Binding; first produced in 1971 and eighth edition produced in 1986.

**Certification**

Certification program for members who are commercial library binders.

**Scope**

An international trade association of library binders, suppliers to the industry and all others interested in preserving the useful life of written materials. Works at providing members with information and services so that they can better serve their customers.

**Standardization  
Activities**

Works with ANSI and Z39 Committees. Also has developed interorganizational Library Binding Institute standard for library binding.

**Availability**

Sold directly

**Keywords**

library binding; book binding; communications;

#### LIGHTNING PROTECTION INSTITUTE

Marvin M. Frydenlund, Managing Director

Post Office Box 1039  
Woodstock, Illinois 60098  
(815) 943-7211

Founded: 1955

Standards Staff: 1

**Type of  
Organization**

Trade Association  
Standards Developer

<b>Standards Development</b>	Standards developer since 1982 12 members participating in LPI standards development 4 members participating in NFPA standards development None processed through ANSI
<b>Standards Designations</b>	LPI prefix
<b>Certification</b>	Offers product certification for lightning protection systems, as well as in 5 skill areas including, Master Installer, Journeyman Installer, Systems Designer, Systems Inspector, and Systems Designer/Inspector.
<b>Scope</b>	An association comprised of manufacturers and dealers who supply and install components used in lightning protection systems for buildings and other structures.
<b>Standardization Activities</b>	Develops standards designed to cover all materials and components which might be under stress while a lightning protection system is conducting lightning current. Also covers metals from the standpoint of durability for they are subject to weathering and possible damage from corrosion, physical impact, or reaction with dissimilar metals.
<b>Availability</b>	Distributed directly and through LPI manufacturer members
<b>Formerly</b>	Lightning Rod Manufacturers Association (1955)
<b>Keywords</b>	lightning rods; lightning protection; building safety;

#### **MAGAZINE PUBLISHERS ASSOCIATION**

see **AMERICAN ASSOCIATION OF ADVERTISING AGENCIES**

#### **MAGNETIC MATERIALS PRODUCERS ASSOCIATION**

Thomas D. Dolan, Executive Secretary

800 Custer Avenue  
Evanston, Illinois 60202  
(312) 864-8444

Founded: 1959

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	20 members participate in standards development

**Government  
Adoption**

Department of Defense has adopted 0100-87

**Scope**

Primary objective is to promote the progress and development of the magnetic materials industry through standardization programs and other activities as may be necessary.

**Standardization  
Activities**

The Standards and Engineering Committee of MMPA administers all standardization programs, which comprises approximately 50 percent of all the programs of MMPA. It has published 0100-87, Standard Specifications for Permanent Magnet Materials; PC 100, Standard Specifications for Ferrite Pot Cores; TC 200, Standard Specifications for Ferrite Threaded Cores; UEI 300, Standard Specifications for Ferrite U, E & I Cores. This committee is also conducting work on standard methods for magnetic testing, magnetization, stabilization, and measurement guidelines.

**Availability**

Sold directly

**Formerly**

Permanent Magnet Producers Association

**Keywords**

magnetic materials; cores; electronic; materials;

**MANUFACTURED HOUSING INSTITUTE**

Jerry C. Connors, President

1745 Jefferson Davis Highway  
Arlington, Virginia 22202  
(703) 979-6620

Founded: 1936

Standards Staff: 2

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

The technical staff and membership participate in development of national standards by a consensus committee for manufactured housing and in cooperation with ASHRAE, NFPA, ASTM, NCSBCS, UL, and others endorsed by ANSI.

**Secretariats**

Secretariat for a consensus committee which makes annual recommendations to the U.S. Department of Housing and Urban Development (HUD), to update the Federal Manufactured Home Construction and Safety Standards.



<b>Scope</b>	A nonprofit trade association comprised of manufacturers and suppliers engaged in producing and servicing manufactured homes. Serves as a liaison to Congress and federal agencies in order to promote and protect the interest of the manufactured housing industry and its consumers. Provides monthly statistical reports on the industry and marketing strategies. Maintains a public relations program and sponsors annual expositions and forums.
<b>Standardization Activities</b>	The standards program is designed to assist members in making the manufactured home a safe, comfortable residence for the owner to live amid attractive surroundings. Advises the U.S. Department of Housing and Urban Development in their maintenance/proponency of the Federal Manufactured Home Construction and Safety Standards and Procedural and Enforcement Regulations (24 CFR 3280, 3282, 3283). These federal standards regulate the design and construction of the homes that are constructed by MHI members.
<b>Formerly</b>	Mobile Home Manufacturers Association (1936)
<b>Keywords</b>	manufactured homes; factory built homes; building;

**MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY**

Olen Thornton, Executive Director

127 Park Street, NE  
Vienna, Virginia 22180  
(703) 281-6613

Founded: 1924

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1924 70 members 50 current standards or guidelines documents, all data presented bi-dimensionally
<b>Standards Designation</b>	MSS SP prefix
<b>Government Adoption</b>	One third of SP's have been adopted for government agency use, more expected.
<b>Secretariats</b>	U.S. TAG's for ISO/TC 153 and SC 5, 10, and Working Group 14 of SC 1, in ISO/TC 5.

<b>Scope</b>	Addresses the needs for standardization, specification, and documentation related to industrial valves, fittings, flanges, pipe hangers, and valve actuators.
<b>Standardization Activities</b>	Develops and reviews standards. Published documents available. Maintains informal liaisons with ASME, API, AWWA, ASTM, UL and other committees/organizations.
<b>Availability</b>	Hard copy sold directly; Microform available through IHS
<b>Keywords</b>	valves; fluid controls; industrial equipment; fittings; flanges; pipe hangers; actuators;

#### MANUFACTURING AUTOMATION PROTOCOL (MAP)

see CORPORATION FOR OPEN SYSTEMS INTERNATIONAL

#### MANUFACTURING JEWELERS AND SILVERSMITHS OF AMERICA

Matthew A. Runci, Executive Director

100 India Street  
 Providence, Rhode Island 02903  
 (401) 274-3840 (401) 274-0265

Founded: 1903

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1933
<b>Standards Designations</b>	FTC rules for the jewelry industry
<b>Government Adoption</b>	Current rules adopted 1957, amended 1959
<b>Secretariats</b>	Jewelers Vigilance Committee
<b>Scope</b>	A national education and information organization for jewelry and silver product manufacturers.
<b>Standardization Activities</b>	Engaged in marking, stamping, nomenclature, precious metals, semiprecious metals, stones, pearls, country origin marks, and related practices. Industry committees agree on proper standards in keeping with the U.S. National Stamping Act. These proposals are submitted to FTC for inclusion into "rules for the jewelry industry." Rules are generally enforced by

FTC, periodic checks of merchandise are made by MJSA and JVC to assure that the standards are being properly followed.

**Availability** Distributed through the Federal Trade Commission

**Keywords** jewelry; precious metals; precious stones; gold; silver; materials; consumer products;

#### MAPLE FLOORING MANUFACTURERS ASSOCIATION

John R. Waxman, Vice President

60 Revere Drive  
Northbrook, Illinois 60062  
(708) 480-9138 Telex: 910-221-5870

Founded: 1897 Standards Staff: 1

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** 60 members active in standards activities

**Certification** Certified products receive the association's written approval. Publishes a list of tested and accepted finishes periodically.

**Scope** Manufacturers of Northern Maple hardwood flooring. Establishes uniform grades and standards of products. Publishes pamphlets on installation and finishing of hardwood flooring.

**Standardization Activities** Establishes and enforces uniform grades and standards of products; improves methods of manufacture; and makes the association trademark a symbol of excellence in methods and materials. Establishes grading rules for hard maple, beech and birch flooring signify that the flooring is standardized and guaranteed by the association to be in accordance with the current established grading rules. Adopted specifications for heavy duty and for gymnasium type floor finish products. Revises specifications every three years for the purpose of improving performance characteristics of the heavy duty and gymnasium floor finishes.

**Availability** Distributed directly

**Keywords** wood; grading rules; inspection; lumber; flooring; building;



## MARBLE INSTITUTE OF AMERICA

Robert Hund, Managing Director

33505 State Street  
Farmington, Michigan 48024  
(313) 476-5558

Founded: 1907

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

ASTM C18 Dimension Stone Committee  
ANSI A108.1 Installation of Ceramic and Marble Tile;  
Installation Materials  
ASTM E06 Performance of Building Construction

**Scope**

Objective is to encourage increased usage of dimension stone in North America. Membership composed of producers, fabricators, importers, exporters, sales agents, distributors, finishers, installing contractors, and those who sell products and services to the industry.

**Standardization  
Activities**

Helps establish standards for dimension stone through ANSI and ASTM committees. Promotes quality of workmanship; publishes design manual and quarterly magazine: "Stone Through the Ages."

**Formerly**

Merger of National Association of Marble Dealers and National Association of Marble Producers (1944)

**Keywords**

marble; granite; limestone; sandstone; slate;  
bluestone; quartzite; dimension stone; building;  
furniture; materials;

## MARKING DEVICE ASSOCIATION

David G. Lister, Managing Executive

435 North Michigan Avenue  
Suite 1717  
Chicago, Illinois 60611  
(312) 644-0828

Founded: 1910

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

Manufacturers of marking devices including rubber and metal stamps, name plates, and seals.

<b>Standardization Activities</b>	Prepares standards for various kinds of metal marking tools and dies. Included are standards for size and depth of marking characters, styles of symbol stamps, stock sizes for various stamp blanks. Other standards in use include those for bores and keyway sizes for roll dies, roller die blanks, and type and type holders for interchangeable steel type.
	Develops standard terminology for all kinds of marking devices, including metal marking tools and dies, rubber stamps, seals, stencils, and marking inks.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	marking devices; stamps; stencils; seals; inks; office products; manufacturing;

**MASONRY AND CONCRETE SAW MANUFACTURERS INSTITUTE**

Allen P. Wherry, Executive Director

30200 Detroit Road  
Cleveland, Ohio 44145  
(216) 899-0010

FAX: (216) 892-1404

Founded: 1981

Standards Staff: 3

**Type of Organization**

Trade Association  
Standards Developer

**Standards Designations**

ANSI B7.5

**Scope**

Membership consists of manufacturers of conventional abrasive blades, masonry saws, concrete saws, diamond wheels, and others.

**Standardization Activities**

Develops safety standards for the use of masonry and concrete saws. Works with ANSI and promulgates its documents through the Grinding Wheel Institute's Accredited Standards Committee B7.

Developed the ANSI Safety Code for The Construction Use and Care of Gasoline Powered, Hand Held, Portable, Abrasive, Cutting Off Machines.

**Availability**

Distributed directly and through ANSI

**Keywords**

abrasive blades; diamond wheels; masonry saws; concrete; industrial equipment;

## MATERIAL HANDLING INSTITUTE

A.L. Leffler, Executive Vice President

8720 Red Oak Boulevard, Suite 201  
Charlotte, North Carolina 28217  
(704) 522-8644

Founded: 1945

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ANSI, ASME
Scope	Represents manufacturers of industrial material handling equipment used in plants, plant-yards, piers, terminals, and warehouses.
Standardization Activities	Product Sections, through Engineering Committees, develop source material for adoption as American National Standards under the canvass procedure of the American National Standards Institute, and furnish source materials to the American Society of Mechanical Engineers Standards Department for promulgation under ANSI procedures.  Comments on military specifications of the Naval Sea Systems Command, Army Mobility Command, Naval Construction Battalion Center and the Naval Engineering Center.
Absorbed	Association of Lift and Portable Elevator Manufacturers
Keywords	material handling; industrial equipment;

## MATERIALS AND METHODS STANDARDS ASSOCIATION

Harvey J. Powell, President

Post Office Box 332  
Grand Haven, Michigan 49417  
(616) 842-7844

Founded: 1962

Standards Staff: 5

Type of Organization	Trade Association Standards Developer
Standards Development	45 members active in standards development



<b>Scope</b>	Establishes standards of quality and performance of materials and methods for installation and use of ceramic tiles.
<b>Standardization Activities</b>	Member of ANSI A108 and ANSI A137-1 Committees; member of Tile Council of America Handbook for Ceramic Tile Installation Committee; issues bulletins on the installation of ceramic tiles.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Methods and Materials Standards Association
<b>Keywords</b>	tile; mortar; building; materials; ceramic products;

#### **MECHANICAL CONTRACTORS ASSOCIATION OF AMERICA**

James R. Noble, Executive Vice President  
 1385 Piccard Drive  
 Rockville, Maryland 20850  
 (301) 869-5800 FAX: (301) 990-9690

Founded: 1889

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Scope</b>	A construction trade association of 1600 firms employing approximately 150,000 persons. Members build systems that move both liquid and gas fluids. This includes fabrication and installation of heating, ventilating, air conditioning, plumbing, and process piping systems in multi-residential, commercial, public, and industrial facilities.
<b>Standardization Activities</b>	Participates in national standards development with American National Standards Institute (ANSI); American Society of Mechanical Engineers (ASME); National Safety Council (NSC); Underwriters Laboratories (UL) for development of consensus standards related to heating, ventilating, air conditioning (HVAC), plumbing, piping, welding, safety, and other construction-related topics.
<b>Keywords</b>	heating; piping; ventilating; air-conditioning; plumbing; welding; safety; construction; building;

## MECHANICAL POWER TRANSMISSION ASSOCIATION

Robert A. Reinfried, Executive Director

932 Hungerford Drive, Suite 36  
Rockville, Maryland 20850  
(301) 738-2448

Founded: 1933

### **Type of Organization**

Trade Association  
Standards Developer

### **Standards Development**

Standards developer since 1936  
Seventeen member companies participate in standards activities  
Standards processed through ANSI

### **Standards Designation**

MPTA and RMA/MPTA prefixes

### **Scope**

Manufacturers of multiple V-belt drive sheaves for mechanical power transmission machinery.

### **Standardization Activities**

Concerned with the development of standards and other programs concerning V-belt drive systems and devices, variable speed drives, synchronous drives, and other belt drives. Maintains liaison with the Rubber Manufacturers Association. V-belt and synchronous drive standards are developed in liaison with RMA.

### **Availability**

V-belt drive standards are available through RMA.

### **Formerly**

Multiple V-Belt Drive and Mechanical Power Transmission Association

### **Keywords**

belt drives; machinery; industrial equipment;

## METAL BUILDING MANUFACTURERS ASSOCIATION

Charles M. Stockinger, General Manager

1230 Keith Building  
Cleveland, Ohio 44115  
(216) 241-7333

Telex: 980-393

Founded: 1956

Standards Staff: 3

### **Type of Organization**

Trade Association/Industry Voluntary Standards  
Standards Developer

### **Scope**

Promotes the uses of metal buildings; deals with technical and trade promotional problems pertinent to

the industry; compiles and publishes information of benefit to the industry and others interested in metal buildings; cooperates in the adoption and maintenance of standards for metal buildings.

**Standardization  
Activities**

A Technical Committee prepares recommendations concerning such projects as methods used in application of design loads, recommended minimum thicknesses of steel used in manufacturing metal buildings in order to assure proper service, and other general recommendations for use by model code bodies in preparing or revising these codes in order to have properly constructed metal buildings. Works in conjunction with the American Iron and Steel Institute, model code bodies, the American Institute of Steel Construction, and other code committees to assure users that proper installations are made.

**Availability**

Distributed directly

**Keywords**

metal buildings; building; structures;

**METAL LADDER MANUFACTURERS ASSOCIATION**

R. L. Werner, Secretary

P.O. Box 580, Osgood Road  
Greenville, Pennsylvania 16125  
(412) 588-8600

Founded: 1949

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

Manufacturers of light metal ladder products. Promotes standardization and simplification of products, sizes, and dimensions to eliminate waste and reduce cost. Conducts safety research.

**Standardization  
Activities**

Works on ANSI code committees for ladders, stages, and scaffolds. Promulgates safety standards pertaining to products manufactured by its members. Active on ANSI committees for portable metal ladders; mobile scaffolds, ladder towers and telescopic work platforms; construction code; and temporary scaffolding.

**Availability**

Sold directly and through ANSI

**Keywords**

metal ladders; ladders; planks; scaffolds; industrial equipment; consumer products;



## METAL POWDER INDUSTRIES FEDERATION

Donald G. White, Executive Director

105 College Road East  
Princeton, New Jersey 08540  
(609) 452-7700

Telex: 510-685-2516  
FAX: (609) 987-8523

Founded: 1945

Standards Staff: 3

### Type of Organization

Trade Association  
Standards Developer

### Standards Development

More than 100 active standards  
One processed through ANSI

### Scope

Serves technical and trade interests of metal powder producing and consuming industries. Composed of the Metal Powder Producers Association, Powder Metallurgy Parts Association, Powder Metallurgy Equipment Association, Refractory Metals Association, Metal Powder Technology Association and Metal Injection Molding Association.

### Standardization Activities

Issues material and test standards in the field of power metallurgy dealing with ferrous and nonferrous materials, including self-lubricating bearings and industry practices. Jointly issues safety standard for metal powder compacting presses with ANSI. Maintains a Standards Board and four standards committees to coordinate its activities. Reviews federal specifications issued by the General Services Administration. Participates on ISO Committee TC/119; ASTM and SAE, Metal Powder, and Metal Powder Products.

### Availability

Distributed directly

### Formerly

Metal Powder Association (1957)

### Keywords

metal powder; powder metallurgy; metallurgy; materials; bearings; compacting presses; metal injection molding;

## METAL TREATING INSTITUTE

M. Lance Miller, Executive Director

302 Third Street  
Suite One  
Neptune Beach, Florida 32233  
(904) 249-0448

Founded: 1933

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1975 None processed through ANSI
<b>Standards Designation</b>	MTI-2000, Quality Assurance Specification for Performance of Heat Treating Processes
<b>Scope</b>	Firms engaged in commercial heating of metals, tools, and other metal products. Conducts regional and national meetings for exchange of information; acts for its members in national affairs affecting the industry.
<b>Standardization Activities</b>	Prepared a set of quality assurance standards which outlines a standard of good process and equipment control and provides customers with specific and meaningful criteria for comparing or evaluating equipment, processes, process controls, and record- keeping systems in the heat treating facility where this standard is employed. Also provides procedures which establish a measure of uniformity among its users so that customer surveys may be made more quickly with better comparability and consistency.
<b>Availability</b>	Sold directly
<b>Keywords</b>	metal treating; heat treating; manufacturing; materials;

#### **MINERAL INSULATION MANUFACTURERS ASSOCIATION**

Kenneth D. Mentzer, Executive Vice President

1420 King Street  
Suite 410  
Alexandria, Virginia 22314  
(703) 684-0084

Founded: 1933

Standards Staff: 1

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Members active in ASTM C16 and E6; ASHRAE TC4.4; Model building code organizations; ISO committees concerned with insulation.
<b>Certification</b>	Initiated, with NAHB Research Foundation, programs for the certification of mineral fiber batts, blankets, and loose wool.

<b>Scope</b>	A nonprofit organization rendering services to promote the welfare and development of mineral wool insulation products designed for installation in buildings utilized for human occupancy.
<b>Standardization Activities</b>	Develops standards and specifications, national in scope, referring to mineral wool insulation products. Cooperates with and advises government agencies at all levels on thermal performance standards that will contribute to the conservation of energy. Also advises and consults with other energy suppliers and professional organizations regarding standards, research, applications, and other related matters.
<b>Formerly</b>	National Association of Rock and Slag Wool Industries (1933) National Rock and Slag Wool Association (1936) National Mineral Wool Association (1938) National Mineral Wool Insulation Association (1960) Mineral Insulation Manufacturers Association, Inc. (1978)
<b>Keywords</b>	mineral wool; mineral fiber; rock wool; fiberglass; insulation; energy conservation; building; materials;

#### **MONORAIL MANUFACTURERS ASSOCIATION**

	William C. Capps, Executive Director
	8720 Red Oak Boulevard Charlotte, North Carolina 28217 (704) 522-8644 FAX: (704) 522-7826
	Founded: 1933 Standards Staff: 2
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards Developer since 1933 Six member companies participate in standards activities Two active standards; both processed through ANSI
<b>Standards Designation</b>	ANSI MH27.1 and ANSI B30.11
<b>Scope</b>	Manufacturers of overhead, underhung, material handling equipment including monorails, stacker cranes, and underhung traveling cranes.
<b>Standardization Activities</b>	Works with ASME, ANSI, American Welding Society, American Foundrymen's Society, and others to develop



design and safety standards and specifications for underhung cranes and monorail systems.

**Availability**

Sold directly and through ANSI

**Keywords**

monorail; underhung crane; industrial equipment;

**MO-SAI INSTITUTE**

R. C. Robinson, Secretary/Treasurer

P.O. Box 539  
Redmond, Washington 98073-0539  
(206) 868-1922

Founded: 1940

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1940  
Standards for design, manufacture, and quality assurance in the fields of precast and prestressed architectural concrete and glass fiber concrete

**Government  
Adoption**

Standards cited by GSA, Army Corps of Engineers, Navy Facilities Command.

**Certification**

Through programs of American Concrete Institute, Prestressed Concrete Institute, ASTM

**Scope**

A nonprofit organization that is organized to standardize, improve, and promote the use of precast architectural concrete. Standardization is administered by the Technical Committee.

**Standardization  
Activities**

Current standards are contained in one publication, Standard Specifications of Mo-Sai Institute. Standards are national in scope and are promoted through market development activities of member companies.

**Availability**

Distributed directly

**Keywords**

concrete; precast concrete; prestressed concrete; building; construction;

## MOTOR VEHICLE MANUFACTURERS ASSOCIATION OF THE UNITED STATES

Dr. Fred W. Bowditch, Vice President,  
Technical Services

7430 Second Avenue  
Suite 300  
Detroit, Michigan 48202  
(313) 872-4311

Founded: 1913

### **Type of Organization**

Trade Association  
Works through other organizations to develop standards

### **Scope**

Manufacturers of passenger and commercial cars, trucks, and buses. Conducts research projects; collects historical facts and figures; compiles statistics; monitors, evaluates and responds to federal and state legislation and regulatory activity dealing with motor vehicles and their use; and coordinates actions on occupational safety and health.

### **Standardization Activities**

The Association is a member of ANSI and participates in standards development related to motor vehicles, workplace health and safety, motor vehicle systems and traffic accident reporting. The Association participates in the Organization Internationale des Constructeurs d'Automobiles on vehicle regulations.

### **Formerly**

Automobile Manufacturers Association, Inc. (1972)  
National Automobile Chamber of Commerce

### **Keywords**

automobiles; automotive; trucks; buses; cars; transportation; workplace; accident reporting;

## MTM ASSOCIATION FOR STANDARDS AND RESEARCH

James P. O'Brien, Director

16-01 Broadway  
Fair Lawn, New Jersey 07410  
(201) 791-7720

Founded: 1951

### **Type of Organization**

Technical Society  
Standards Developer

### **Scope**

A nonprofit organization primarily engaged in research and training in the field of methods-time-measurement (MTM). Maintains the following committees: Membership; Conference; Public Relations; Technical Services;

Administration and Policy Planning; Research; Member Services; and Finance.

**Standardization  
Activities**

Establishes standards for a methodology for deriving a time to perform a given manual task including standardization data for clerical operations, work under the microscope, and work in maintenance areas. Also developed and provides specialized productivity management services such as RX:MedTrol, a system to provide quality healthcare in a cost-effective manner.

Maintains an Association for Standards and Research composed of academicians, individual members and corporate memberships that include various branches of the Government, insurance companies, manufacturing facilities, banks, educational institutions, consultant companies, the Association for the Blind, etc.

**Availability**

Distributed directly

**Keywords**

measurement; time management; manufacturing;

**MUMPS DEVELOPMENT COMMITTEE**

Thomas Salander, Chairman of MUMPS Development Committee

4321 Hartwick Road, Suite 100  
College Park, Maryland 20740

(301) 779-6555

**Type of  
Organization**

Technical Society  
Standards Developer

**Representation**

ANSI X11.1

**Scope**

A nonprofit corporation devoted to the advocacy of the MUMPS computer language and facilitation of MUMPS technology as a component of the information processing community. MDC operates as an open membership body using the strictly voluntary efforts of its members. MDC meets three times a year and has approximately 80 member organizations.

**Standardization  
Activities**

MDC is officially recognized by ANSI as responsible for developing standards for the MUMPS Computer language. The MDC is engaged in perfecting the MUMPS language specification and determines the technical specifications for binding MUMPS to the surrounding body of standards that must be related to MUMPS. This committee has published three revisions of ANSI X11.1 - in 1977, 1984, and 1990.



**Keywords**

MUMPS; computers; computer language;

**NMTBA - THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY**

Anthony M. Bratkovich, Engineering Director

7901 Westpark Drive  
McLean, Virginia 22102  
(703) 893-2900

FAX: (703) 893-1151  
Telex: 710-831-0031

Founded: 1902

Standards Staff: 4

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

Working through member companies and staff representation on ASME, NFPA, IEEE, EIA, ASTM, AGMA, and others, most of which are ANSI accredited writing organizations.

**Scope**

Comprised of companies producing over 90 percent of U.S. total machine tool output. Objectives are to be the industry spokesman before the public and the Government; to provide technical, economic, educational, and informational service to its members; and to promote higher technical and safety standards in industry.

**Standardization  
Activities**

Promotes and supports industry representation in promulgating standards by sponsoring various machine tool oriented standard writing committees. Cooperates with standardization committees of other trade associations and supports industry representation on committees of the International Organization for Standardization and the International Electrotechnical Commission.

**Formerly**

National Machine Tool Builders Association (1989)

**Keywords**

machine tools; manufacturing technology; metal cutting; metal forming; machinery;

**NATIONAL ACCREDITATION COUNCIL FOR AGENCIES SERVING THE BLIND  
AND VISUALLY HANDICAPPED**

Dr. James D. McComas, President

79 Madison Avenue  
Room 1406  
New York, New York 10016  
(212) 683-8581

Founded: 1967

**Type of  
Organization**

Technical Society  
Standards Developer

**Scope**

Develops standards and administers a voluntary system of accreditation for local, state, and national agencies providing direct services to blind and visually handicapped persons.

**Standardization  
Activities**

Develops and updates standards for the management and services for agencies and schools for the blind and visually handicapped and administers a voluntary system of accreditation. Twenty-five sets of standards cover all areas of administration and service delivery for schools, workshops, rehabilitation centers, and other organizations serving blind and visually handicapped persons.

Standards are used as guidelines for reviewing degree of compliance by schools and agencies. Accreditation is awarded relative to compliance with Council standards, which are revised periodically. Public recognition of accreditation is made by the Commission on Accreditation. Accreditation may be granted for maximum of five years or for less than the maximum period. The Commission may grant accreditation, deny it, or postpone a decision.

**Availability**

Sold directly

**Keywords**

blindness; rehabilitation; low vision; social welfare;

**NATIONAL ARBORIST ASSOCIATION**

Robert Felix, Executive Vice President

Route 101, Box 1094  
Amherst, New Hampshire 03031-1094  
(603) 673-3311 FAX: (603) 672-2613

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

A trade association of more than 1,000 commercial tree service firms. A strong supporter of the voluntary standards system.

**Standardization  
Activities**

Instrumental in the development of ANSI Z133.1, American National Standard for Tree Care Operations - Pruning, Trimming, Repairing, Maintaining, and Removing Trees, and Cutting Brush - Safety Requirements, and all five of its revisions.

**Keywords**

trees; safety;

**NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS**

A. L. Sisco, Executive Vice President

600 South Federal Street  
Suite 400  
Chicago, Illinois 60605  
(312) 922-6222

Founded: 1937

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Eleven standards  
Two processed through ANSI

**Standards  
Designations**

NAAMM Standard, NAAMM Recommended Voluntary Standard,  
ANSI/NAAMM prefix

**Scope**

A nationwide association of fabricators of architectural, commercial, residential, ornamental, miscellaneous, and hollow metal products. Promotes mutual interests and cooperation among members of industry; promotes educational and informational activities; compiles and disseminates statistics; furnishes technical information to architects and engineers; maintains and improves technical standards of the industry; conducts studies and surveys to increase the use of the markets for industry products; promotes and assists in the development of new products.

**Standardization  
Activities**

Five divisions active in standards activities including Architectural Metal Products Division, Flagpole Division, Hollow Metal Manufacturers Association Division, Metal Bar Grating Division, and Metal Lath/Steel Framing Association Division. Voluntary standards and specifications developed for metal stairs, metal stair railings, pipe railings, flagpoles, hollow metal doors and frames, metal bar grating, metal lath and plaster assemblies and lightgage steel framing which are widely accepted by architects, engineers, specification writers, code groups, and government agencies.

Publishes the Metal Stair Manual, Metal Finishes Manual, Pipe Railing Manual, Metal Flagpole Manual, Guide Specification for Design Loads of Metal Flagpoles, Hollow Metal Manual, Metal Bar Grating Manual, Heavy Duty Metal Bar Grating Manual, Welding



Standard for Fabrication of Metal Bar Grating, Specifications for Metal Lathing & Furring and Lightweight Steel Framing Systems Manual. Also revises and updates standards on a regular basis. Also provides representation to ASTM committees where appropriate to the development of performance and testing standards.

**Availability** Distributed directly

**Formerly** National Association of Ornamental Metal Manufacturers. Absorbed the National Steel Door and Frame Association (1962)

**Keywords** architectural metals; stairs; railings; bar-gratings; flagpoles; doors; door frames; building; light gauge steel framing; metal lath;

**NATIONAL ASSOCIATION OF BROADCASTERS**

Michael Rau, Vice President - Science & Technology

1771 N Street, NW  
Washington, DC 20036  
(202) 429-5346

Founded: 1922

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1941

**Standards Designations** NAB and NARTB prefixes

**Certification** No certification, qualification, or accreditation programs

**Secretariats** NAB is the secretariat of the Advanced Television Systems Committee whose purpose is to coordinate the development of voluntary national standards for Advanced Television Systems in the United States. NAB is also secretariat of the National Radio Systems Committee (NRSC) whose purpose is to better the relationship between broadcasters and radio receiver manufacturers through technical improvements.

**Scope** Represents membership of 5,000 radio and over 900 television stations, including the major networks. Represents the industry before Congress, the White House, and federal regulatory agencies.

<b>Standardization Activities</b>	Maintains standards committees regarding the retention and review of existing NAB standards and practices. As a member of the Joint Committee on Inter-Society Coordination composed of the NAB, EIA, IEEE, NCTA, and SMPTE, the NAB participates in many standards setting committees representing broadcasters and broadcasting interests. Standards pertain to radio and television technical improvements, and producing test records and CDs.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	National Association of Radio and Television Broadcasters (NARTB) (1951-1957)
<b>Keywords</b>	disc recording; tape recording; cartridge tape; cassette tape; broadcast; advanced television systems;  NRSC; AM engineering; FM engineering; technical improvement; communications;

**NATIONAL ASSOCIATION OF CHAIN MANUFACTURERS**

	Ross G. Wilcox, Executive Vice President
	20 North Wacker Drive Suite 3318 Chicago, Illinois 60606 (312) 558-1849
	Founded: 1932
<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Standards committees of ASTM, ASME, and others.
<b>Scope</b>	Ten manufacturers of welded chain, weldless chain, and tire chains. In addition to standardization, the Association promotes the use of chain and serves as a liaison in contacts with technical and professional groups and federal governmental agencies.
<b>Standardization Activities</b>	The Association has three committees involved in various aspects of standards development and coordination. These are the Engineering Subcommittee, Ad Hoc Committee on Metrication, and Tire Chain Technical Subcommittee. Along with development of industry standards, members of these groups serve on various standards setting bodies.
<b>Formerly</b>	The Chain Institute

**Keywords** chain; tire chains; industrial equipment;  
transportation;

**NATIONAL ASSOCIATION OF CORROSION ENGINEERS**

Carolyn, Donahoo, Director, Technical Services Division

P.O. Box 218340  
Houston, Texas 77218  
(713) 492-0535

Telex: 792-310

Founded: 1943

Standards Staff: 3

**Type of  
Organization**

Technical Society  
Standards Developer

**Standards  
Development**

Standards developer since 1969  
3,000 members participating in standards activities  
70 active standards  
None processed through ANSI  
Draft standards available for review

**Standards  
Designation**

NACE MR, Material Requirement  
NACE TM, Test Methods  
NACE RP, Recommended Practice

**Government  
Adoption**

Several standards are referenced in state and federal regulations.

**Certification**

Professional recognition program with five categories, each of which is designed to recognize levels in corrosion work; one category is for coating inspectors.

**Secretariats**

Serves as U.S. Technical Advisory Group Administrator to ISO/TC 35/SC 12, Preparation of Steel Surfaces before Application of Paint and Related Products.

**Scope**

Assists the public and industrial communities to conserve energy and materials through corrosion control and materials selection. Provides a forum for the presentation of new technology and evaluation of existing technology; publishes literature concerned with the science and engineering of corrosion; supports the needs of other learned societies by supplying information regarding the science and engineering of corrosion control and materials selection; establishes and publishes technical standards and practices to guide producer and user industries; promotes the recognition of corrosion engineering as a profession by means of education, accreditation, and certification programs.



**Standardization  
Activities**

Standardization activities accomplished through approximately 350 technical committees which are composed of representatives from industries in which corrosion is a problem. Identifies corrosion problems and solutions and assembles information to define the problems. Develops standards which are reviewed by interested industry parties. Standards represent a consensus of persons substantially concerned with their subjects.

Makes concerted efforts to involve other technical societies in relevant standardization activities through formal liaison.

Primary focus on standardization has been related to development of performance standards. Standards have been proposed regarding performance (resistance to corrosion) of offshore steel platforms, performance of cathodic protection systems, and performance of materials in corrosive environments.

**Availability**

Distributed directly, and through IHS and American Technical Publishers

**Keywords**

corrosion; materials degradation; materials;

**NATIONAL ASSOCIATION OF COUNTY ENGINEERS**

Milton L. Johnson, P.E., Executive Director

326 Pike Road  
Ottumwa, Iowa 52501  
(515) 684-6928

Founded: 1956

**Type of  
Organization**

Professional Society  
Standards Developer

**Scope**

Identifies various technical and management problems common to most counties and documents their solutions. Conducts workshops and holds a Management Research Conference annually. Affiliated with the National Association of Counties.

**Standardization  
Activities**

Publishes Action Guide Manuals which emphasize standards for county engineering management and procedures for simplified engineering and technical analysis. Subjects include: organization-personnel purchasing; cost records; advance road programs; county planning; planning county road systems; refuse disposal; county traffic operations; maintenance management; public support; spot safety improvements;

bridge inspection; soil erosion and water pollution prevention; aerial photography; drainage; travel generation; and subsurface soils exploration. Works closely with federal departments, Congressional Committees, the Highway Research Board, and state agencies.

**Availability** Distributed directly

**Keywords** county; government officials; construction; facilities management;

**NATIONAL ASSOCIATION OF GARAGE DOOR MANUFACTURERS**

June G. Fitzgerald, Executive Secretary

655 Irving Park at Lake Shore Drive  
Suite 201 Park Place  
Chicago, Illinois 60613  
(312) 525-2644

Founded: 1968 Standards Staff: 1

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** One active standard

**Scope** Promotes the quality and safety of sectional overhead type doors.

**Standardization Activities** Developed American National Standard, A216.1-1977 (NAGDM 102-1976), Specifications for Sectional Overhead Type Doors. Standard includes performance criteria and test methods for acceptable safety, quality, and durability of sectional overhead type doors intended for residential use and commercial or industrial use on garages, warehouses, service stations, and other places requiring doors generally used for vehicular traffic.

**Availability** Distributed directly and through ANSI

**Formerly** Midwest Garage Door Manufacturers Association (1972)

**Keywords** doors; overhead doors; buildings;

## NATIONAL ASSOCIATION OF HOSIERY MANUFACTURERS

Sid Smith, President and CEO

447 South Sharon Amity Road  
Charlotte, North Carolina 28211  
(704) 365-0913

Founded: 1905

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Designation**

Commercial Standards, CS prefix

**Scope**

Composed of manufacturers who knit or otherwise process hosiery of any type. Develops standards for hosiery measurement, performance, and quality.

**Standardization  
Activities**

Active in technical research leading to standards concerning size systems and terminology for various types of hosiery. NAHM Sizing Standard is an industry standard using body measurements for the sizing of men's, women's, and children's knee-high and shorter hosiery. Developed a simple method for use in describing women's pantyhose in order to provide wearers with proper fitting garments. Instrumental in developing measurement standards.

**Availability**

Distributed directly

**Keywords**

sizes; hosiery; clothing; consumer products;

## NATIONAL ASSOCIATION OF HOSPITAL PURCHASING MATERIALS MANAGEMENT

Tedd Heckethorn, Acting Executive Director

Post Office Box 1046  
Lewiston, Pennsylvania 17044  
(717) 242-0106

Founded: 1957

**Type of  
Organization**

Professional Society  
Standards Developer

**Certification**

The Professional Development Committee has established guidelines for the certification of hospital purchasing managers.

**Scope**

A nonprofit professional organization of hospital purchasing directors. Fosters an increased knowledge



of and proficiency in purchasing management; conducts and participates in educational programs and activities; provides media for the interchange of ideas and dissemination of material relative to hospital purchasing management.

**Standardization  
Activities**

Establishes standards of performance for individuals and institutions in the various areas of hospital purchasing management through certification and educational conferences and research in hospital purchasing management.

**Formerly**

National Association of Hospital Purchasing Management  
(1968)  
National Association of Hospital Purchasing Agents  
(1957)

**Keywords**

hospital management; purchasing; general; health care;

**NATIONAL ASSOCIATION OF INDUSTRIAL AND OFFICE PARKS**

Sid R. Peters, Executive Vice President

1215 Jefferson Davis Highway  
Suite 100  
Arlington, Virginia 22202  
(703) 979-3400 FAX: (703) 979-3409

Founded: 1967

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Scope**

A trade association of developers of industrial and office parks and others interested in commercial real estate. Aims to stimulate the growth of the office and industrial park industry, to improve the prospects and profits of its members, and to foster establishment and maintenance of standards for the operation of park complexes.

**Standardization  
Activities**

Cooperates to develop and utilize standards in the areas of paved streets, utility systems for multiple users, setback or percentage coverage requirements, landscaping, off street parking, and architectural control.

**Formerly**

National Association of Industrial Parks

**Keywords**

industrial parks, office parks; building; construction; facilities management;

## NATIONAL ASSOCIATION OF JEWELRY APPRAISERS

Richard E. Baron, Executive Director

4210 North Brown Avenue  
Scottsdale, Arizona 85251  
(602) 941-8088

Founded: 1981

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Developer of Jewelry Appraisal Standards since 1981  
700 members participating in standards activities

**Certification**

Certification of qualified and accredited member  
appraisers

**Scope**

A professional association exclusively devoted to the  
jewelry appraisal profession. The association  
functions on a national and international basis. Works  
to disseminate information, improve methods of  
appraisal valuation, and share opinions on areas of  
common interest.

**Standardization  
Activities**

The standardization activities of the association are  
directed toward user-defined requirements for the  
industry and those who require a professional opinion  
as to value.

Major activities include Appraisal Forms, Related Work  
Sheets, and Terminology. New areas of standards which  
are applicable to the industry are being developed and  
reviewed.

**Availability**

Distributed directly

**Keywords**

jewelry appraisers; gems; diamonds; gemology, consumer  
products;

## NATIONAL ASSOCIATION OF MANUFACTURING OPTICIANS

William J. Flannery III, Executive Director

Post Office Box 866428  
Plano, Texas 75086-6428  
(214) 484-8128

Founded: 1975

**Type of  
Organization**

Trade Association  
Standards Developer

<b>Scope</b>	A nonprofit trade association of individuals and businesses engaged in the manufacture and production of prescription eyewear or related ophthalmic goods and services.
<b>Standardization Activities</b>	Dedicated to standards development through regulation, legislation, and education of the public. Cooperates with ANSI, the Total Ophthalmic Community Conference, ISO, and the National Association of Wholesaler-Distributors. Developed a bar code for optical products.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	ophthalmology; optician; optics; ophthalmic products;

**NATIONAL ASSOCIATION OF NAME PLATE MANUFACTURERS**

James A. Kinder, Executive Vice President

1700 East Dyer Road  
Suite 165  
Santa Ana, California 92705  
(714) 261-2591 FAX: (714) 261-2594

Founded: 1951

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1969
<b>Standards Designation</b>	Nameplate Industry Standards and Practices
<b>Government Adoption</b>	Military Specifications for nameplates
<b>Scope</b>	Membership accounts for approximately two-thirds of the total business volume of the name plate manufacturing industry in the United States. The term "name plate" refers to any metal or plastic plate that has been etched, embossed, stamped, engraved, or imprinted and which is fastened to another object for purposes of identification, instruction, or decoration.
<b>Standardization Activities</b>	Standards represent a relatively small but highly significant portion of the association's activities. In 1969 published Metal Name Plate Industry Standards and Practices, which was updated in 1987 under the name of Name Plate Industry Standards and Practices. This



book is the only set of standards in existence for the industry in the United States. Among the subject areas covered are: nomenclature, finishes, fabrication tolerances, materials, fastening methods, inspection, reject procedure, delivery, and equipment preparation. Copies have been distributed throughout the industry and to customers of the industry in both private and public sectors for their information and use in writing specifications. The Book of Standards Committee is responsible for compiling and coordinating changes.

**Availability** Sold directly

**Formerly** National Association of Metal Nameplate Manufacturers (1968)

**Keywords** nameplates; industrial equipment; office products;

**NATIONAL ASSOCIATION OF PHOTOGRAPHIC MANUFACTURERS**

Richard Hittner, Manager - Domestic Standards

Eduard R. Scherrer, Manager - International Standards

550 Mamaroneck Avenue  
Harrison, New York 10528  
(914) 698-7603 FAX: (914) 698-7609

Founded: 1946 Standards Staff: 3 full-time  
2 part-time

**Type of Organization**

Trade Association  
Standards Developer

**Standards Development**

767 members active in standards development  
92 active international standards  
276 ANSI approved standards

**Standards Designations**

ASC/PH prefix  
ASC/IT prefix

**Secretariats**

ASC/PH1, Photographic Films, Plates, and Papers  
ASC/PH2, Photographic Sensitometry  
ASC/PH3, Photographic Apparatus  
ASC/PH4, Photographic Processing  
ASC/IT7, Instructional Audiovisual Systems Standards  
ASC/IT9, Physical Properties and Permanence of Imaging Media  
ISO/TC 42, Photography  
U.S. Technical Advisory Group ISO/TC 42  
U.S. Technical Advisory Group ISO/TC 72

<b>Scope</b>	An association for manufacturers of image technology products. Promotes and encourages a wider understanding and appreciation of image technology, and a greater use of image technology products worldwide.
<b>Standardization Activities</b>	<p>Promotes standardization of all photographic products, and methods of testing product performance. Ensures interchangeability and compatibility of photographic components and materials.</p> <p>Domestic standards committees are accredited by the American National Standards Institute and follow a voluntary consensus system. Proposes programs of work and gives direction and guidance to the various Accredited Standards Committees while maintaining over 276 approved standards. Cooperates with ANSI, ASTM, ANMC, IEEE, NEMA, SMPTE, ISO, and IEC.</p> <p>International activities include developing international photographic standards under ISO procedures, and maintaining close liaison with other international standards developing organizations in allied fields. Promotes participation in the activities of the International Electrotechnical Commission (IEC) through NAPM's domestic and international standards committee secretariats.</p>
<b>Availability</b>	<p>Draft standards distributed directly</p> <p>Published standards distributed through ANSI</p>
<b>Keywords</b>	image technology; photography; photographic products; photographic optics; x-ray; film; photographic accessories;

#### NATIONAL ASSOCIATION OF PIPE COATING APPLICATORS

	Merritt B. Chastain, Jr., Managing Director
	333 Texas Street 8th Floor Shreveport, Louisiana 71101-3673 (318) 227-2769
	Founded: 1965 Standards Staff: 8
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1965 One hundred company members participate in standards activities; continuously reviewed and revised None processed through ANSI Draft standards available for review by members

**Standards  
Designations**

NAPCA Bulletin

**Scope**

A trade association for the plant pipe coating application industry. Comprised of companies engaged in the manufacture or sale of materials, supplies, equipment, or services, and those utilizing coating products. Promotes the general welfare of the industry, stimulates the use of coating and related materials, standardizes and improves specifications and materials, aids consumers and manufacturers in their coating material research, cooperates with other industries and organizations, and disseminates information to its members, its customers and the public.

**Standardization  
Activities**

Develops and revises pipe coating application specifications, standards, and suggested procedures. Publishes Pocket Edition of National Association of Pipe Coating Applicators Specifications and Plant Coating Guide which contains all current and revised specifications. Most recent revisions completed in 1987.

**Availability**

Distributed directly

**Keywords**

pipe coating; corrosion protection; insulation; coating; construction;

**NATIONAL ASSOCIATION OF PLUMBING-HEATING-COOLING CONTRACTORS**

Robert L. Warren, Director of Technical Services

180 South Washington Street  
Post Office Box 6808  
Falls Church, Virginia 22046  
(703) 237-8100

Founded: 1883

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

ANSI Committees A119, B16, B31; Z223, Fuel Gas Code; ASTM, IAPMO, GSA, and UL

**Government  
Adoption**

Various federal agencies, including the Department of Housing and Urban Development, the Army Corps of Engineers, the Navy, and others, have adopted the National Standard Plumbing Code.



<b>Scope</b>	Advances and encourages better methods and practices in the field of plumbing, hydronic heating, and hydronic cooling; advances sanitation and sanitary laws and techniques in air-conditioning leading to better protection of the health and welfare of the public; improves plumbing appliances and fixtures and heating and cooling equipment and parts; promotes equitable relations between contractors, journeymen, and other employees and between manufacturers and jobbers in supplies used in the plumbing, heating, cooling, gas-fitting, and drainage business. 6,000 members.
<b>Standardization Activities</b>	Maintains a Technical Committee which administers the standardization activities. Developed and published the National Standard Plumbing Code which was adopted by the Department of Housing and Urban Development in 1973.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	National Association of Master Plumbers (1962)
<b>Keywords</b>	plumbing; heating; air-conditioning; building; sanitation;

#### NATIONAL ASSOCIATION OF PUNCH MANUFACTURERS

	Charles H. Till, Executive Secretary
	1173 West River Parkway Grand Island, New York 14072 (716) 773-5720
	Founded: 1963
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	All standards processed through ANSI
<b>Standards Designations</b>	ANSI B94.x
<b>Scope</b>	Devoted to standardization of all punches, dies, and retainers manufactured by various member companies.
<b>Availability</b>	Distributed through ANSI
<b>Keywords</b>	manufacturing; tools;

## NATIONAL ASSOCIATION OF PURCHASING MANAGEMENT

R. Jerry Baker, Executive Vice President

2055 East Centennial Circle  
Post Office Box 22160  
Tempe, Arizona 85252

Founded: 1915

Type of Organization	Professional Society Works through other organizations to develop standards
Certification	Certified Purchasing Manager Program which establishes a standard of competency.
Scope	Provides national and international leadership in purchasing and materials management research and education. Provides opportunities for expansion of professional skill and knowledge. Encourages public understanding of the purchasing and materials management concepts.
Standardization Activities	Promulgates standards through company standardization programs. Sponsors educational programs which are related to the broad field of standardization and simplification. In an effort to further advance sound principles of purchasing and to elevate the purchasing profession, this committee's professional development program publishes a series of handbooks.
Formerly	National Association of Purchasing Agents (1968)
Keywords	purchasing; materials management; business;

## NATIONAL ASSOCIATION OF RELAY MANUFACTURERS

D.E. Dangott, Executive Director

P.O. Box 1506  
Elkhart, Indiana 46515  
(219) 264-9421

Founded: 1947

Type of Organization	Trade Association Standards Developer
Scope	Promotes the standardization of terminology and test procedures in the manufacture and uses of relays. Cosponsors a National Relay Conference to provide engineers and specialists concerned with relays the opportunity to present results of their technical

investigations to representatives of prominent relay manufacturers, users, and academicians.

**Standardization  
Activities**

Maintains standards committees which coordinate member activities with relay users and Government agencies in establishing specifications for relays. Cooperates with Electronic Industries Association and others to write standards for reed switches, solid state relays, and mercury displacement relays. Develops other specifications for low carbon and silicon steels, and EMI iron for use in magnetic circuits for relays. Publishes Engineers Relay Handbook which contains specifications relating to terminology and test procedures. It is an all-encompassing engineering reference source, covering all relays from electromechanical to hybrid and solid state. Also publishes the booklet, Definitions of Relay Terms.

**Availability**

Distributed directly

**Keywords**

relays; electrical equipment;

**NATIONAL ASSOCIATION OF ROCKETRY**

James P. Miller, President

1311 Edgewood Drive  
Altoona, Wisconsin 54720  
(715) 834-8074

Founded: 1958

Standards Staff: 4

**Type of  
Organization**

Scientific Society  
Standards Developer

**Standards  
Development**

Standards developer since 1958  
10 manufacturers participate in standards activities  
2 active standards

**Government  
Adoption**

48 state governments use NAR Safety Certification as a prerequisite for sale.

**Certification**

See below

**Scope**

A national hobby service organization for model rocketeers. Provides a monthly magazine, technical materials, liability insurance, and education programs for its members. Sanctions local clubs and local contests. Homologates national model rocket flight records. The U.S. Representative to the FAI CIAM Subcommittee on Space Models where it interacts internationally with other hobby organizations. Chairs the NFPA Committee on Pyrotechnics and works closely with



the HIA to monitor state and national hobby legislation.

**Standardization  
Activities**

Certifies model rocket motors for safety prior to their sale in 48 states. Certification is based upon the reliability of the motors, casing temperatures, and the total impulse. Contest certifies model rocket motors prior to their use in Association sanctioned contests.

Recertifies model rocket motors every third year. Established a random sampling program to spot check motors for sale to consumers on hobby shop shelves. Maintains records of motor failures filed by its members, these records are provided to the manufacturers as input for product correction and development.

**Availability**

Distributed directly

**Formerly**

Model Missiles, Inc. (1958)

**Keywords**

pyrotechnics; model rockets; aeromodeling; recreation; space models;

**NATIONAL ASSOCIATION OF STATE PURCHASING OFFICIALS**

Darrell D. Perry, Executive Secretary

Box 11910 Iron Works Pike  
Lexington, Kentucky 40578  
(606) 252-2291

Founded: 1947

Affiliated with the State Council of Governors.

See Section 4.1 of this Directory listing state government standardization activities.

**NATIONAL ASSOCIATION OF STATE TEXTBOOK ADMINISTRATORS**

Becky McConkey, Executive Director

3905 Reedy Creek Road  
Raleigh, North Carolina 27606-6441  
(919) 733-6015

**Type of  
Organization**

Professional Society  
Standards Developer

**Standards  
Designations**

NASTA prefix

<b>Scope</b>	Directors of state education agencies responsible for the purchase and distribution of textbooks for public schools.
<b>Standardization Activities</b>	Maintains an Advisory Committee which develops specifications for hard cover textbooks and non-consumable softcovered texts. Specifications cover margins, uniform labelling, paper, binding, and stitching. Cooperates with BMI (Book Manufacturer's Institute) and AAP (Association of American Publishers) to develop specifications. Publishes Manufacturing Standards and Specifications for textbooks developed by a commission comprised of NASTA, BMI, and AAP.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	National Association of State Text Book Directors
<b>Keywords</b>	textbooks; book publishing; education;

**NATIONAL AUTOMATED CLEARING HOUSE ASSOCIATION**

Elliott McEntee, President

607 Herndon Parkway  
Suite 200  
Herndon, Virginia 22070

Founded: 1974

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1974
<b>Scope</b>	A national trade association involved in developing payments standards for automated clearing house (ACH) transactions. Processed over 1 billion ACH transactions in 1989 for applications such as direct deposit, preauthorized debits, corporate cash concentration, and electronic data interchange (EDI) payments. Forty-two member associations representing over 16,000 financial institutions.
<b>Standardization Activities</b>	Involved in developing standards for electronic of funds and information. Through Rules and Operations Committee, develops and maintains rules governing the exchange of ACH transactions.
<b>Availability</b>	Distributed directly

**Keywords** financial; direct deposit; EDI payments; preauthorized debits; corporate trade payments; cash concentration;

**NATIONAL AUTOMATIC MERCHANDISING ASSOCIATION**

Larry M. Eils, Director, Public Health and Safety  
20 North Wacker Drive  
Suite 3500  
Chicago, Illinois 60606  
(312) 346-0370 FAX: (312) 704-4140

Founded: 1936

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1959  
One standard

**Standards Designations** NAMA Standard for the Sanitary Design and Construction of Food and Beverage Vending Machines (as amended, September 1989)

**Government Adoption** Adopted by many states, counties and municipalities and, by reference, the Army, Air Force, and Navy. Results of evaluation activity are recognized nationwide.

**Certification** Evaluation and testing are conducted by retained consultants. Reevaluation is conducted annually.

**Scope** The national association of the vending and contract food service industry. Membership includes national/regional/local operating companies, machine manufacturers, distributors, and product suppliers. Services include legislation, government relations, education, conventions, state affiliate organizations, public relations, publications, and public safety.

**Standardization Activities** Maintains a 20-member Automatic Merchandising Health Industry Council comprised of representatives from national public health associations, federal regulatory and military agencies, vending operators, machine manufacturers and suppliers. Recommends to NAMA all administrative policies and procedures used in the evaluation program. Works with Underwriters Laboratories on UL standards 541 and 751.

**Availability** Distributed directly

**Keywords** vending; vending machine; automatic merchandising; food sanitation; public health;



## NATIONAL AUTOMOBILE THEFT BUREAU

Paul W. Gilliland, President

10330 South Roberts Road - 3A  
Palos Hill, Illinois 60465  
(312) 430-2430

Founded: 1912

**Type of  
Organization**

Service Organization  
Works through other organizations to develop standards

**Scope**

The NATB formulates and implements policies for the prevention of vehicle theft, vehicle arson, and vehicle fraud. NATB cooperates with duly constituted public authorities in the prosecution of individuals engaged in vehicle crime and fraud. The Bureau is an agency for the location and identification of stolen vehicles and for the promotion of anti-vehicle theft activities. NATB is a crime prevention organization supported by more than 650 property-casualty insurance companies, providing assistance to law enforcement, insurance and the public.

**Standardization  
Activities**

Cooperates with automobile manufacturers in the adoption of a standard vehicle identification number, as well as in a standard method of stamping and affixing such numbers.

Prints and distributes to law enforcement agencies a Motor Vehicle Identification Manual, a Commercial Vehicle Identification Manual, and Manual for the Investigation of Automobile Fires. Services of the bureau are for the benefit, not only of insurance companies and law enforcement agencies, but of the entire motoring public.

**Keywords**

automobile theft; law enforcement; insurance;  
transportation;

## NATIONAL BARK AND SOIL PRODUCERS ASSOCIATION

Robert C. LaGasse, Executive Director

13542 Union Village Circle  
Clifton, Virginia 22024  
(703) 830-5367

Founded: 1971

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1972

**Scope**

Represents producers of bark and soil products in the United States and Canada. Disseminates information about the use of products to horticulture firms, garden shops, and the public.

**Standardization  
Activities**

The industry forum for development of bark and soil product standards; works with other organizations, such as the National Conference on Weights and Measures to develop standards. Has defined ten product categories. Grade standards serve as guidelines for producers and are used on product bags as an indication of quality.

**Availability**

Distributed directly

**Formerly**

National Bark and Soil Producers Association

**Keywords**

bark; mulch; soil; agriculture;

**NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS**

W. L. Garvin, Assistant Executive Director

1055 Crupper Avenue  
Columbus, Ohio 43229  
(614) 888-8320

Telex: 246-625

Founded: 1919

**Type of  
Organization**

Professional Society  
Standards Developer

**Standards  
Designation**

National Board Inspection Code, 1983 (an ANSI Standard);  
National Board Boiler Blowoff Equipment, 1973;  
Relieving Capacities of Safety Valves and Relief Valves, 1983.

**Certification**

All states, municipalities, and Canadian provinces that have boiler and pressure vessel laws recognize the National Board inspector's commission and National Board stamping boilers and pressure vessels as meeting their safety law requirements for new construction. Transfer of such objects between states is implemented by National Board stamping. Relieving capacities of safety valves and pressure relief valves as certified by the National Board is used by various state, municipal, and provincial jurisdictions to determine adequate volumetric relief of the pressurized medium in event of runaway conditions.

<b>Scope</b>	Confines its membership to persons charged with enforcement of the boiler and pressure vessel laws in various states in the United States and the Canadian provinces.
<b>Standardization Activities</b>	Operates in the following areas of standardization: boiler and pressure vessel law enforcement; uniform boiler laws and rules throughout the jurisdiction of its members; uniform qualifications for boiler and pressure vessel inspectors, including identical examinations conducted simultaneously throughout the United States and Canada; uniform stamping of boilers and pressure vessels that are inspected during construction by such boiler and pressure inspectors who hold valid National Board commissions; and uniform relieving capacity ratings of safety valves and pressure relief valves for boiler and unfired pressure vessel service. Works with the American Society of Mechanical Engineers, Boiler and Pressure Vessel Code; the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA); the U.S. Coast Guard; and the U.S. Nuclear Regulatory Commission (NRC) in the development of safety standards, codes, and uniform safety inspections.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	boilers; pressure vessels; safety valves; industrial equipment; government officials;

#### **NATIONAL BUILDING GRANITE QUARRIES ASSOCIATION**

Kurt M. Swenson, Secretary

c/o Rock of Ages Corporation  
Post Office Box 482  
Barre, Vermont 05641  
(802) 476-3115

FAX: (802) 476-3110

Founded: 1916

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1916
<b>Scope</b>	A national trade association of companies involved in the quarrying and manufacture of granite for architectural applications. They represent their members in national and international areas of interest.



<b>Standardization Activities</b>	Publishes Specifications for Architectural Granite annually. Specifications are reviewed and updated annually. Also provides listing of available types of granite from members classified by color, name, quarry location and quarrier. Also provides other assistance on architectural granite upon request.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	granite; building materials; architecture; architectural granite; building granite;

#### NATIONAL BURGLAR AND FIRE ALARM ASSOCIATION

Charles B. Lavin, Sr., CAE, Executive Director

7101 Wisconsin Avenue  
Suite 1390  
Bethesda, Maryland 20814-4805  
(301) 907-3202

Founded: 1948

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Representatives on NFPA, UL, and ASTM Committees
<b>Scope</b>	Represents 2,400 installing and operating alarm companies, as well as manufacturers and suppliers of alarm equipment services. Maintains liaison with the insurance industry, fire and policy organizations, state and federal agencies, and many special groups.
<b>Standardization Activities</b>	Standards committee monitors all standards of interest to members and distributes information accordingly. Input to consensus standards is provided through members on various committees.
<b>Keywords</b>	burglary; fire alarm; security; alarm system; buildings;

#### NATIONAL CABLE TELEVISION ASSOCIATION

James P. Mooney, President

1724 Massachusetts Avenue, NW  
Washington, DC 20036  
(202) 775-3550

Founded: 1952

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Scope</b>	Represents the interests of the cable television industry before Congress and federal agencies, in courts of law, and before state regulatory agencies in dialogues with other industries and groups.
<b>Standardization Activities</b>	Maintains an Engineering Department which administers the standardization activities. Issues Engineering Standards which cover the areas of Visual Carrier Level, Amplifier Distortion, Graphic Symbols, the Standards Numbering System, and Noise Level in Cable Systems. The active standards committees and new projects are C-TAC (Cable Television Advisory Committee); EIA/CTSC (Cable Television Systems Communications); NEC (National Electric Code); and the JCIC (Joint Committee on Inter-Society Coordination). Promotes the use of standards through a bulletin and training courses. Participates in subcommittees of the International Electrotechnical Commission and is involved with the Federal Communications Commission.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	National Community Television Association (1969)
<b>Keywords</b>	television; cable television; communications;

#### NATIONAL CARGO BUREAU

S. Fraser Sammis, Chairman

30 Vesey Street  
New York, New York 10007  
(212) 571-5000

FAX: (212) 571-5005

Founded: 1952

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Certification</b>	The bureau is authorized by the U.S. Coast Guard to certify the loading of bulk grain cargoes and to approve grain loading plans in accordance with current regulations. The Bureau is officially recognized by the Coast Guard and the Department of Labor as a cargo gear certification agency.
<b>Scope</b>	A nonprofit organization whose membership is comprised of persons prominently identified with steamship management or marine insurance underwriting organizations. Dedicated to the safe loading, stowing,

securing, and unloading of cargo and cargo containers on all vessels, and for the design, strength, safety, and suitability of cargo handling gear and cargo containers, including the security and integrity of containers.

**Standardization  
Activities**

Assists the U.S. Coast Guard in administering the provisions of the Dangerous Cargo Act and the applicable regulations in Title 46, of the Code of Federal Regulations, Shipping, with respect to inspection of vessels for suitability for loading dangerous cargo; examination of stowage of dangerous cargo; making recommendations as to towage requirements of dangerous cargo; and issuance of certificate of loading setting forth that the stowage of dangerous cargo is in accordance with the regulations.

Participates in activities of the International Maritime Organization (IMO) by being active on the IMO Maritime Safety Committee, the Subcommittee on Containers and Cargos, and the Subcommittee on the Carriage of Dangerous Goods. This subcommittee revised the international regulations for the carriage of bulk grain.

**Formerly**

Absorbed Bureau of Inspection of Board of Underwriters of New York; Board of Marine Underwriters of San Francisco (1952)

**Keywords**

cargo handling; containerization; shipping; insurance; transportation;

**NATIONAL CERTIFIED PIPE WELDING BUREAU**

Jack Hansmann, Executive Secretary

1385 Piccard Drive  
Rockville, Maryland 20850-4329  
(301) 869-5800 FAX: (301) 990-9690

Founded: 1944 Standards Staff: 2

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

20 members represented on standards committees of organizations such as ASME, ANSI, and AWS.

**Scope**

A department of the Mechanical Contractors Association of America, Inc. Engages in research and educational work; supplies information and data on welding; creates a force of welders uniformly trained and qualified; and



promotes, develops, and maintains the quality of welding in the piping industry.

**Standardization  
Activities**

Cooperates with other organizations to provide guidance and input for the standards development process. Works toward development of uniform procedure specifications for welding methods.

**Keywords**

pipe; welding; manufacturing;

**NATIONAL CIVIC LEAGUE**

John Parr, President

1601 Grant Street  
Suite 250  
Denver, Colorado 80203  
(303) 832-5615

Founded: 1894

**Type of  
Organization**

Technical Society  
Works through other organizations to develop standards

**Scope**

Civic leaders, educators, public officials, civic organizations, libraries, and businesses interested in improving state and local government and techniques of citizen action. Serves as a clearinghouse for information on state constitution, city and county charters, legislative apportionment, fiscal procedures, among others.

**Standardization  
Activities**

Model laws devised, published, and distributed by this organization are intended to serve as standards and to stimulate uniformity in state, county, and city legislation. These include a model bond law, budget law, city charter (which provides the council-manager form of government), model county charter, election administration system, model real property tax collection law, registration system, model state constitution, and others.

**Formerly**

National Municipal League/Citizens Forum on Self-Government

**Keywords**

model laws; government; officials; community problem solving;

## NATIONAL CLAY PIPE INSTITUTE

E. J. Sikora, Vice President

Post Office Box 759  
253-80 Center Street  
Lake Geneva, Wisconsin 53147  
(414) 248-9094

Founded: 1944

Standards Staff: 2

**Type of  
Organization**

Trade Association  
Standards developer by working through ASTM

**Government  
Adoption**

Federal agencies involved directly and indirectly in construction activities have adopted ASTM standards for Vitrified Clay Pipe and its installation.

**Secretariats**

ASTM Committee C-4.

**Scope**

An international trade association, representing the major U.S. manufacturers of Vitrified Clay Pipe, with Associate Members in several foreign countries. Renders engineering advisory services to design engineers, Government officials, and others. Conducts scientific research, national advertising, and public relations programs on behalf of the industry at various independent research laboratories and universities.

Publishes the Clay Pipe Engineering Manual for engineers, city and state officials, and architects. Also technical brochures of an educational nature relating to the use of Vitrified Clay Pipe in sanitary sewer systems.

**Standardization  
Activities**

Active in the American Society for Testing and Materials. Assists in the development of federal specifications.

**Availability**

Sold directly

**Formerly**

National Clay Pipe Manufacturers (1961)

**Keywords**

vitrified clay pipe; sewers; sanitation; construction;

## NATIONAL CLAY POT MANUFACTURERS ASSOCIATION

Stone Manes, President

P.O. Box 485  
Jackson, Missouri 63755  
(314) 243-3138

Founded: 1956

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

A nonprofit corporation which acts to stimulate professional and public interest in the uses and advantages of clay flower pots and in modern techniques employed in their production.

**Standardization  
Activities**

Develops standard sizes and shapes of clay flower pots manufactured in the United States.

**Availability**

Distributed directly

**Keywords**

flower pots; planting; agriculture; horticulture;  
floriculture; retail;

**NATIONAL COFFEE ASSOCIATION OF THE USA**

George E. Boecklin, President

110 Wall Street  
New York, New York 10005  
(212) 344-5596

Founded: 1911

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Scope**

Green coffee importers, jobbers, brokers, and agents; instant coffee processors; roasters and allied coffee industries. Promotes sound business relations among members of the trade to increase coffee consumption.

**Standardization  
Activities**

Representatives from member firms assist in development of ISO standards, Codex Alimentarius standards; U.S. Government and various other standards for purchasing.

**Keywords**

coffee; agriculture; beverages;

**NATIONAL COIL COATERS ASSOCIATION**

Kenneth Dickson, Executive Director

1900 Arch Street  
Philadelphia, Pennsylvania 19103  
(215) 564-3484

Founded 1962



<b>Type of Organization</b>	Trade Association Standards Developer
<b>Scope</b>	Manufacturers of continuously coated metal coil, other than metal plated coil. Fosters development of standard test methods, exchanges technical information, collects statistics, and promotes coated coil.
<b>Standardization Activities</b>	Maintains a Technical Section which works to develop test methods and evaluate new processes. Activities include accelerated testing, physical testing, and standards development in the areas of color, laminate, aluminum, and steel. Supports ASTM, ANSI, and AISI in this work. Publishes a Technical Manual and Bulletins.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	coil coating; metal coating; materials;

**NATIONAL COMMITTEE FOR CLINICAL LABORATORY STANDARDS**

John V. Bergen, Ph.D., Executive Director

771 E Lancaster Avenue  
Villanova, Pennsylvania 19085  
(215) 525-2435

Founded: 1968                      Standards Staff: 13

<b>Type of Organization</b>	Voluntary Consensus Standards Developer
<b>Standards Development</b>	Accredited by ANSI Over 1,200 scientists participate in 115 projects 81 standards and guidelines available; 20 at approved level, 20 at tentative level, and 41 at proposed level 150 active members (professional organizations, governmental agencies, industrial organizations) 1,050 corresponding members (state agencies, universities, clinical laboratories, international organizations)
<b>Secretariats</b>	Administrator of Technical Advisory Group ISO/TC 76, Technical Equipment for Medical Use. Reporting Secretariat for International Organization of Legal Metrology (OIML). SP 26/SR 5, Measuring Instruments Used in the Field of Public Health/Clinical Laboratory Reference Materials.
<b>Scope</b>	A national nonprofit, educational organization whose purpose is to provide a communication forum for, and to promote the development and use of, national and international standards for the clinical laboratory.

Based on the principle that voluntary consensus standards for clinical laboratory testing are necessary in order to maintain laboratory performance at levels that ensure high quality patient care.

Represents an active membership with balanced representation of the professional sector, government, and industry, including professional organizations, state and federal agencies, trade associations, and individual companies. Members participate in the development of proposed, tentative, and approved NCCLS standards and guidelines.

**Standardization  
Activities**

Develops standards in ten areas: clinical chemistry, evaluation protocols, instrument systems, general laboratory practices, immunology, hematology, microbiology, ligand assay, toxicology/drug monitoring, and alternate site testing.

Publications focus on laboratory procedures, bench and reference methodologies, and scientific evaluation protocols, providing realistic standards and guidelines that the clinical laboratory can use in its day-to-day activities. Standards publications include those relating to antibiotic susceptibility testing, blood collection, water purity testing, and clinical laboratory instrumentation. Also administers the National Reference System for the Clinical Laboratory (NRSCL) which provides the scientific basis to ensure that clinical laboratory results can be interchanged within defined limits of accuracy and precision.

**Availability**

Distributed directly

**Keywords**

clinical chemistry; medical instruments; laboratory; testing; immunology; hematology; microbiology; ligand assay; toxicology/drug monitoring; public health; reference technology; physician's office laboratory;

**NATIONAL COMPUTER GRAPHICS ASSOCIATION**

Carl Machover, President

2722 Merrilee Drive  
Suite 200  
Fairfax, Virginia 22031  
(800) 225-NCGA  
(703) 698-9600

Founded: 1979

**Type of  
Organization**

Trade Association  
Standards Developer

<b>Secretariats</b>	ISO/IEC JTC1/SC24/WG1
<b>Scope</b>	Trade association comprised of more than 6,000 computer graphics professionals and 120 corporate members. NCGA is dedicated to developing and promoting the computer graphics industry and improving applications in business, industry, government, science and the arts.
<b>Standardization Activities</b>	<p>NCGA's annual systems integration demonstration showcases the association's commitment to improving productivity through the widespread education and use of computer graphics standards.</p> <p>NCGA is administrator of the IGES/PDES Organization and serves as secretariat for the international committee on computer graphics, ISO/IEC JTC1/SC24/WG1. NCGA also promotes the use, benefits and acceptance of data exchange standards for the geographic information systems (GIS) and mapping industries through the association's Geographic Data Exchange Standards Forum.</p>
<b>Keywords</b>	computer; computer graphics; mapping; IGES/PDES; geographic information systems (GIS);

#### **NATIONAL CONCRETE MASONRY ASSOCIATION**

	<p>Kevin D. Callahan, Vice President of Technical Services</p> <p>2302 Horse Pen Road P.O. Box 781 Herndon, Virginia 22070 (703) 435-4900</p> <p>Founded: 1920                      Standards Staff: 5</p>
<b>Type of Organization</b>	<p>Trade Association</p> <p>Works through other organizations to develop standards</p>
<b>Representation</b>	All national code bodies; ASTM committees and American Concrete Institute standards committee.
<b>Scope</b>	A nonprofit trade association representing concrete masonry manufacturers throughout the United States, Canada, and 21 other countries. Encourages development of the art and science of manufacturing concrete masonry; creates a standard of excellence in manufacturing; develops criteria for the proper use of concrete masonry products and concrete pavers and encourages such use; and facilitates the interchange of practical knowledge among its members and related industries and organizations.



**Standardization  
Activities**

Activities of the association are developed by the Technical and Specifications Review Committees and are subject to approval by the Board of Directors. Maintains continuing liaison and participation in the standardization and specification activities of the major national code bodies in the United States, the American Society for Testing and Materials, the American Concrete Institute, ASCE, BSSC, AIA, and CSI. Liaison and product specification assistance conducted on a regular basis with agencies of the federal government including the National Institute of Standards and Technology, Departments of Housing and Urban Development, Defense, Commerce, Agriculture, and with the Corps of Engineers, Department of Veterans Affairs, General Services Administration, National Aeronautics and Space Administration, and the Federal Aviation Administration.

**Keywords**

concrete masonry; building; construction;

**NATIONAL CONFERENCE OF STATES ON BUILDING CODES AND STANDARDS**

Robert C. Wible, Executive Director

481 Carlisle Drive  
Herndon, Virginia 22070  
(703) 437-0100

Founded: 1967

Standards Staff: 5

**Type of  
Organization**

Professional Society  
Works through other organizations to develop standards

**Certification**

Participates in National Certification Program for construction Code Inspectors (NCPCCI) examinations.

**Scope**

Founded by a group of state governors concerned with the need to better coordinate state building code and public safety activities, NCSBCS today represents the fifty states and several territories in the area of building codes and standards. It maintains an Executive Branch Agreement of the National Governors Association and includes as members governor-appointed representatives of each state and territorial government. Also included as members are other state and local building officials, practicing architects and engineers, building contractors, product manufacturers and suppliers, and consumers. NCSBCS promotes intergovernmental reforms in the area of building codes and standards and encourages the establishment of standards and practices which promote the development, introduction, and acceptance of innovative building materials and techniques.

<b>Standardization Activities</b>	50 delegates and 5 standards staff participate in the development, updating, and ongoing maintenance of building codes and standards at the state and federal level. Responsible for the ANSI A225.1 Standard on Manufactured Housing Installations (Manufactured Home Sites, Communities and Set-ups). NCSBCS provides state government with a voice before other standards setting organizations. Some current public safety programs of NCSBCS include: acting as the monitoring and standardization agent for the U.S. Department of Housing and Urban Development in the federal manufactured housing construction and safety program; assisting the states in maintaining and updating their building energy conservation and architectural accessibility requirements; researching and developing models of effective and efficient state building code administration; and development of interstate reciprocity for modular and industrialized buildings.
<b>Keywords</b>	building codes and standards; manufactured home installations; state government; heating; safety; energy; building; government officials;

**NATIONAL CORRUGATED STEEL PIPE ASSOCIATION**

<b>Type of Organization</b>	<p>Venlo J. Wolfsohn, Executive Director</p> <p>2011 Eye Street, NW Washington, DC 20006 (202) 223-2217                      FAX: (202) 457-9121</p> <p>Founded: 1955</p>
<b>Standards Development</b>	<p>Trade Association Standards Developer</p> <p>Standards developer since 1956 74 member companies participating in standards activities 5 active standards None processed through ANSI</p>
<b>Standards Designation</b>	CSP prefix
<b>Scope</b>	A national trade association that represents corrugated steel pipe fabricators, steel suppliers, and manufacturers of related products. Improves and expands the use of corrugated steel pipe and plate for culverts, sewers, bridges, subdrains, and other drainage facilities.

<b>Standardization Activities</b>	Maintains an active Technical Advisory Committee which develops CSP standards along with participating in and monitoring the work of other technical bodies such as ASTM, AASHTO, and AISI. Engineering organizations, specifying agencies, and users of corrugated steel pipe use standards. Widespread activities of the association make it possible for county, state, Federal, city, consulting and other engineers, as well as construction personnel, to become thoroughly acquainted with design, use, installation, and acceptance of corrugated steel pipe throughout the United States.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	National Corrugated Metal Pipe
<b>Keywords</b>	culverts; sewers; bridges; construction;

**NATIONAL COTTON COUNCIL OF AMERICA**

Phillip C. Burnett, Executive Vice President

P.O. Box 12285  
 Memphis, Tennessee 38182  
 (901) 274-9030

Founded: 1938

Standards Staff: 4

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Members provide input or serve on various committees of standards developers, such as ASTM, ISO, AATCC, ACGIH, OSHA, CAL/OSHA, CPSC, EPA, and ANSI.
<b>Secretariats</b>	Joint Cotton Industry Bale Packaging Committee (JCIBPC). NCCA is one sponsor of the International Cotton Calibrations Standards Committee.
<b>Scope</b>	The National Cotton Council is the central organization of the U.S. cotton industry representing growers, ginner, warehousemen, merchants, cooperatives, manufacturers, and cottonseed crushers. It serves its members through programs of technical services, foreign operations, communications services, economic services, and legislation.
<b>Standardization Activities</b>	Works with industry and government agencies in developing needed fiber/textile test methods, product standards, and safety/health environmental standards affecting the cotton industry. Develops specifications to improve the quality and protection of the American



cotton bale and to improve its appearance and saleability in domestic and foreign markets. Sets cotton bale standards to guide handlers and processors in evaluating and communicating bale conditions. Through the JCIBPC, develops specifications for acceptable cotton bale packaging materials. These are adopted by reference by the Commodity Credit Corporation as a requirement for CCC loan eligibility.

**Keywords** cotton; bale packaging; fiber testing; cottonseed; textiles; safety environment; agriculture;

#### NATIONAL COTTONSEED PRODUCTS ASSOCIATION

Allen Ater, Executive Vice President

P.O. Box 12023  
Memphis, Tennessee 38182-0023  
(901) 324-4417 FAX: (901) 324-4421

Founded: 1897 Standards Staff: 2

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** 244 members actively participate in the use of NCPA Trading Rules.

**Scope** Virtually all contracts between members and between members and non-members are subject to the provisions of the Trading Rules of the National Cottonseed Products Association.

**Standardization Activities** Trading Rules provide for handling, sampling, and analysis of cottonseed and cottonseed products and for handling normal variation in quality and in actual delivery weights. Trading rules, such as those for cottonseed oil trading rules, relate final compensation to yield or out-turn of refined oil from the crude oil.

**Availability** Distributed directly

**Keywords** cottonseed; edible oil; food; agriculture;

#### NATIONAL COUNCIL ON RADIATION PROTECTION AND MEASUREMENTS

J. Spahn, Staff Assistant

7910 Woodmont Avenue  
Suite 1016  
Bethesda, Maryland 20814  
(301) 657-2652

Founded: 1964

**Type of  
Organization**

Scientific Society  
Standards Developer

**Standards  
Development**

Recommendations developed since 1928  
75 published reports which contain recommendations

**Scope**

A nonprofit corporation which seeks to promulgate information and recommendations based on leading scientific judgment on matters of radiation protection and measurement and to foster cooperation among organizations concerned with these matters.

**Standardization  
Activities**

Collects, analyzes, develops, and disseminates in the public interest information and recommendations about protection against radiation and radiation measurements, quantities, and units, particularly those concerned with radiation protection. Provides a means by which organizations concerned with scientific and related aspects of radiation protection and of radiation quantities, units, and measurements may cooperate for effective utilization of their combined resources. Develops basic concepts about radiation quantities, units, and measurements about the application of these concepts and about radiation protection. Cooperates with the International Commission on Radiological Protection, the International Commission on Radiation Units and Measurements, and other national and international organizations, governmental and private.

Maintains seventy-seven Scientific Committees to draft proposed recommendations.

**Availability**

Distributed directly

**Formerly**

National Committee on Radiation Protection and Measurement  
Advisory Committee on X-Ray and Radium Protection

**Keywords**

radiation protection; radiation measurement;  
environmental; safety;

**NATIONAL DIMENSION MANUFACTURERS ASSOCIATION**

Steven V. Losser, Executive Director

1000 Johnson Ferry Road  
Suite A-130  
Marietta, Georgia 30068  
(404) 565-6660

Founded: 1929

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards Developer since 1929  
All members participate in standards development

**Standards  
Designation**

NDMA

**Scope**

Objectives are to establish and maintain the rules and standards for the industry; conduct and stimulate trade promotion activities for the industry; and to hold educational plant tours and meetings that promote exchange of manufacturing techniques and ideas in the industry among its members.

**Standardization  
Activities**

Cooperates with all lumber, furniture, cabinet and related wood using manufacturers/associations in bringing about standardization programs on grading rules for wood component products. Publishes the "NDMA Rules and Specifications for Dimension and Woodwork." These Rules are recognized by the National Hardwood Lumber Association, and are considered international in scope.

**Formerly**

Hardwood Dimension Manufacturers Association

**Availability**

Sold directly

**Keywords**

wood products; trim; stairs; furniture; cabinetry;  
woodwork; moulding; inspection;

**NATIONAL EASTER SEAL SOCIETY**

John Garrison, President

70 East Lake Avenue  
Chicago, Illinois 60601  
(312) 726-6200

Founded: 1919

**Type of  
Organization**

Technical Society  
Works through other organizations to develop standards

**Representation**

ANSI, CARF, ACA, ASHA, JCAH, ACDD, NHC, BBB, and NCIB

**Scope**

Represents 160 state and local affiliates serving persons with disabilities. Programs include legislative advocacy and the maintenance of standards



for programs in occupational, physical and speech therapy, recreation, and other rehabilitation services.

**Standardization  
Activities**

Works to develop standards which ensure effective and efficient treatment and services for persons with disabilities as well as their integration into the education, housing, employment, and other community services. Representatives serve on Boards of national accrediting organizations and the ANSI Secretariat for the Standard for making Buildings Accessible to the Physically Handicapped. Involves consumers, designers, code officials, manufacturers, and representatives of federal regulatory agencies in its activities. Promotes the ANSI specification for accessibility to ensure one uniform standard for reference in building codes, laws, and regulations.

**Keywords**

disabled; physically handicapped; accessibility; codes; buildings; public health; social welfare;

**NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION**

Charles H. Williams, Manager of Codes and Standards

7315 Wisconsin Avenue, 13th Floor  
Bethesda, Maryland 20814  
(301) 657-3110

Founded: 1901

**Type of  
Organization**

Trade Association  
Standards developer and works through other organizations to develop standards

**Standards  
Development**

Developed and maintains workmanship standard

**Representation**

The Correlating Committee and all of the code making panels of the National Electrical Code Committee. Also represents electrical contractors for the development of the National Electrical Safety Code, which is concerned with electrical outdoor construction. Serves on standards committees of ANSI, IEEE, NFPA, UL, and others.

**Standards  
Designation**

NECA Standard of Installation

**Scope**

A nationwide trade association representing the electrical contracting industry. Provides management services and labor relations programs. Sponsors research and educational programs; compiles statistics; conducts seminars.

<b>Standardization Activities</b>	Sets basic standards for electrical equipment and materials and methods of their installation. The NECA Technical Service maintains competent representation on interindustry and other standards agencies. NECA's Standard of Installation defines good workmanship and has been an authoritative guide to determine the "neat and workmanlike manner" requirements of the National Electrical Code. Prevents and reduces accidents by providing continuing information to its members on OSHA requirements.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	electrical construction; energy management; lighting; power distribution; building; construction;

#### **NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION**

	Frank K. Kitzantides, Manager, Engineering Department  2101 L Street, NW Washington, DC 20037 (202) 457-8479  Founded: 1926	Telex: 904077 NEMA WSH FAX: (202) 457-8411  Standards Staff: 14
<b>Type of Organization</b>	Trade Association Standards Developer	
<b>Standards Development</b>	Standards developer since 1926 630 members participating in standards activities 170 current standards 20 standards recognized by ANSI 5 standards endorsed by EEMAC Draft standards distributed for user review	
<b>Standards Designation</b>	NEMA Standard, Suggested Standard for Future Design, Authorized Engineering Information, Official Standards Proposal.	
<b>Government Adoption</b>	Several standards have been adopted as federal standards.	
<b>Secretariats</b>	28 ANSI committees dealing with electrical equipment IEC/TC 72/SC/2J, SC/15C, ISO/TC 184/SC 5	
<b>Scope</b>	A trade association of manufacturers of equipment and apparatus used for the generation, transmission, distribution, and utilization of electric power. Membership comprises 630 electrical manufacturing companies in the United States. Membership is limited to domestic corporations, firms, and individuals	

engaged in the manufacture or promotion of products included within 70 NEMA product subdivisions. Products include transformers, wire and cable, switchgear, industrial control and systems, lighting, building equipment, diagnostic imaging and therapy systems products and industrial automation equipment.

**Standardization  
Activities**

Standards are designed and written to eliminate misunderstandings between manufacturers and users of electrical products and to provide for safety in the application of these products. Involves all interested parties in standards development and review. Cooperates with organizations such as the American Society for Testing and Materials, National Fire Protection Association, Underwriters Laboratories, the Institute of Electrical and Electronics Engineers, and others. Also cooperates with federal agencies.

Supports ANSI and has representation on standards committees and sponsors several of them. Also represented on ANSI Standards Boards and the Organizational Member Council. Participates in the International Electrotechnical Commission (IEC), the IEC System for Conformity Testing to Standards for Safety of Electrical Equipment (IECEE), and in the International Organization for Standardization (ISO).

NEMA also participates in the development of safety standards affecting electrical equipment. Cooperates with other branches of the industry in an effort to secure acceptance throughout the country of the National Electrical Code and the National Electrical Safety Code. Members also cooperate in an independent advisory capacity with the Underwriters Laboratories in the development of electrical safety standards.

**Availability**

Sold directly by NEMA and through IHS, American Technical Publishers Ltd., and Global

**Formerly**

Formed by merger of Electrical Power Club and Associated Manufacturers of Electrical Supplies (1926)

**Keywords**

electrical equipment; safety; machinery; medical equipment; industrial automation;

**NATIONAL ELEVATOR INDUSTRY**

Edward A. Donoghue, Manager-Codes and Safety

600 Third Avenue, 9th Floor  
New York, New York 10016  
(212) 730-2124



Founded: 1934

Standards Staff: 2

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since late 1950's  
100 members participating in Code and Standards  
activities pertaining to elevators, escalators,  
dumbwaiters, and moving walks  
Two active standards  
None processed through ANSI

**Standards  
Designation**

Suggested Minimum Passenger Elevator Requirements for  
the Handicapped  
Vertical Transportation Standard (formerly Elevator  
Engineering Standard Layouts)

**Government  
Adoption**

Suggested Minimum Passenger Elevator Requirements for  
the Handicapped has been adopted by numerous  
jurisdictional authorities and model building codes.

**Secretariats**

U.S. TAG for ISO/TC 178, Lifts and Escalators

**Scope**

Promotes the interests of its members by acting as  
representative in collective bargaining with the  
International Union of Elevator Constructors and other  
labor organizations; advancing sound engineering  
practices within the industry in cooperation with  
government agencies in activities related to elevator  
codes and the installation, service, and maintenance of  
elevators and related products; compiling and furn-  
ishing statistical information, including figures on  
accident reduction and employee safety.

**Standardization** Actively participates with code and standards  
**Activities** organizations and enforcing authorities in developing,  
maintaining, and applying safety codes and standards that pertain to eleva-  
tors, dumbwaiters, escalators, and moving walks. Develops requirements for  
the handicapped using vertical transportation, codes for personnel  
elevators, personnel and material hoists, model building codes, electrical  
codes, requirements for elevator fire doors, and metric codes.

Promotes the adoption of new state and local elevator  
codes, revises existing elevator safety codes and  
secures uniform interpretation of the Safety Code for  
Elevators and Escalators ANSI/ASME A17.1.  
Representatives of the NEII Central Code Committee are  
members of ASME A17, NFPA 70, 80 and 101, BOCA, SBCC,  
ICBO, and ASTM.

The Standards Committee is responsible for the  
development of industry standards for elevators,  
dumbwaiters, and escalators. The Vertical  
Transportation Standard gives architects and building

owners standard dimensions from which they can produce building layouts.

The International Standards Committee coordinates the Activities of the U.S. Technical Advisory Group for ISO/TC 178 Lifts and Escalators.

<b>Availability</b>	Distributed directly
<b>Formerly</b>	National Elevator Manufacturers Industry (1969)
<b>Keywords</b>	elevators; escalators; dumbwaiters; moving walks; lifts; building; safety; physically handicapped;

#### NATIONAL ENVIRONMENTAL BALANCING BUREAU

William C. Abernathy, Co-Administrator

8224 Old Courthouse Road  
Vienna, Virginia 22180  
(703) 784-3840

Founded: 1971

<b>Type of Organization</b>	Trade Association Standards Developer
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<b>Standards Development</b>	3 procedural standards publications
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<b>Government Adoption</b>	Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems is referenced in Federal Guide Specifications.
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<b>Certification</b>	NEBB offers certification for firms that meet all requirements established for Performance of Air Systems, Performance of Hydronic Systems, and Sound and Vibration Measurement.
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<b>Scope</b>	A nonprofit organization sponsored by the Mechanical Contractors Association of America (MCAA) and Sheet Metal and Air Conditioning Contractors National Association (SMACNA).
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<b>Standardization Activities</b>	Works in conjunction with other organizations to develop industry procedural standards for testing, adjusting, and balancing (TAB) of environmental systems in buildings. Represented on the American Society for Heating, Refrigerating and Air conditioning Engineers (ASHRAE) 111 Committee, Testing, Adjusting, Balancing. Develops manuals that provide a comprehensive set of systematic procedures representing the state-of-the-art of TAB work. Manuals cover air/hydronic TAB and sound
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and vibration measurement procedures for environmental systems in buildings.

**Availability** Distributed directly

**Keywords** balancing; sound; vibration; air handling; hydronic systems; HVAC Systems; environmental systems; acoustics; building;

**NATIONAL ENVIRONMENTAL HEALTH ASSOCIATION**

Nelson Fabian, Executive Director

720 South Colorado Boulevard  
Suite 970  
Denver, Colorado 80222  
(303) 756-9090

Founded: 1937

**Type of Organization** Professional Society  
Standards Developer

**Certification** Offers professional registration for environmental health and protection personnel either by reciprocity from a state or by examination. Also certifies environmental health technicians.

**Scope** A national, nonprofit professional and educational organization for people who work in controlling environmental hazards for the betterment of human health and well being.

**Standardization Activities** Publishes a state-of-the-art manual for on-site wastewater management, a peer review journal, a trends report, and various model ordinances such as a model ordinance for the regulation and certification of swimming pool service companies, and swimming pool technicians and apprentices. Promotes educational and performance standards for environmental health practitioners.

**Availability** Distributed directly

**Keywords** public health; sanitation; environment;



## NATIONAL FASTENER DISTRIBUTORS ASSOCIATION

Mary Ann Langholz, Executive Director

1348 Haddon Road  
Columbus, Ohio 43209  
(614) 237-0252

FAX: (614) 237-3898

Founded: 1968

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representation** The Association is a member of ANSI, ASME, ASTM, the American National Metric Council, and the Industry Bar Code Alliance.

**Scope** 209 manufacturers and distributors in the fastener industry with members located in 41 states employing 18,000 people.

**Standardization Activities** An information gathering group that disseminates data to the proper standards committees. Writes specifications only if the situation cannot be handled by an existing standards developing organization. Currently developing a bar code standard

**Keywords** fasteners; manufacturing;

## NATIONAL FEDERATION OF ABSTRACTING AND INFORMATION SERVICES

John Schnepf, Chairman  
Common Practices and Standards Committee

1429 Walnut Street  
Philadelphia, Pennsylvania 19102  
(215) 563-2406 FAX: (215) 563-2848

Founded: 1958

**Type of Organization** Technical Society  
Works through other organizations to develop standards

**Representation** 65 members active in standardization activities including involvement in ANSC-Z39, ANSC-X3, ISO/TC 46, UNESCO's UNISIST Project, Federal Information Processing Standards (FIPS), AAP's Electronic Publishing Subcommittee, and others.

**Scope** A nonprofit federation of organizations involved in abstracting and indexing services, operating information centers, or conducting research in information science. Improves the extent and quality

of the documentation and use of the world's literature through research programs, publications, and seminars. Concerned with developing communications, cooperation, and coordination among all segments of the information processing and dissemination community including primary publishers, libraries, commercial and industrial abstracting and indexing services, data analysis centers, information dissemination centers, and teachers and researchers in the field. Also serves as a communication forum for its members through meetings, workshops, committee activities, and publications.

#### **Standardization Activities**

Although NFAIS is not a standards-setting body, it works within the voluntary standards community to foster the development and use of standards relevant to its membership. Because NFAIS members are involved in various aspects of the processing and disseminating of information, their interest in standards ranges widely. Relevant standards may pertain directly to abstracting and indexing practices. Also of interest are standards dealing with information science, primary publishing, library work, data processing, and computer readable information transfer. Relevant standards may also arise from individual subject areas or disciplines with which the information deals, such as engineering, biology, philosophy, or art.

NFAIS, through its Common Practices and Standards Committee (CP&S), serves as a communications link between the voluntary standards-setting community and the information publishing and distribution community. The CP&S Committee coordinates the NFAIS response to ballots or requests for comments pertaining to draft standards. This is accomplished by polling the NFAIS membership and, in some cases, by resolving minority votes on specific standards. By the same mechanism, NFAIS recommends and votes on qualified individuals to run for office or to serve on committees in standards-setting bodies.

Further, NFAIS encourages the active participation of its members on standards-setting bodies. Through its members and officers, NFAIS plays a role in the work of such standards setting bodies as: ANSI Committees X3-Information Processing and Z39-Library and Information Sciences and Related Publishing Practices; ISO Committees TC 46-Documentation and TC97-Computers and Information Processing; UNESCO through its UNISIST and ISDS (International Serials Data System) agencies; IFLA (International Federation of Library Associations); ICSU-AB (International Council of Scientific Unions - Abstracting Board); FIPS; and the AAP Electronic Publishing Subcommittee.

In addition to its support for the development of voluntary standards, NFAIS also encourages the general adoption of those standards considered most applicable and useful to the information processing and distribution community. Periodically, NFAIS surveys the implementation of standards by its members in order to determine which standards are being used and the ways in which they are used. Such surveys also provide information on the common practices and the de facto standards of members which may be candidates for formal standardization.

**Formerly** National Federation of Science Abstracting and Indexing Service (NFAIS), 1972.

**Keywords** abstracting; indexing; information services; on-line searching; bibliographic data bases; information processing; communications;

#### NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS

Bruce B. Durbin, Executive Director

11724 Plaza Circle  
Kansas City, Missouri 64153  
(816) 464-5400

Founded: 1920

**Type of Organization** Academic Federation  
Standards Developer

**Standards Development** Prepares rules and standards for 13 interscholastic sports.

**Scope** Represents 20,000 high schools and 10 million secondary school students, primarily to secure proper adherence to the rules of various state high school associations during interstate competition. Establishes standards for sanctioning domestic athletic events.

**Standardization Activities** Publishes and distributes playing rules for domestic competition in interscholastic sports: baseball, basketball, football, gymnastics, soccer, swimming and diving, track and field, volleyball, ice hockey, wrestling, field hockey. Sixty-six rules related publications are published including 28 rule books and 13 rule examinations. Provides national interpretation of the rules and advocates safety standards which are incorporated in the rule publications.

**Availability** Distributed directly



**Formerly** National Federation of State High School Athletic Associations (1970)

**Keywords** athletic competition; sports; safety; recreation;

**NATIONAL FERTILIZER SOLUTIONS ASSOCIATION**

James B. Boillot, Executive Vice President

339 Constor Drive  
Manchester, Missouri 63011  
(314) 256-4900

Founded: 1955 Standards Staff: 1

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1974  
4 active standards, all processed through ANSI

**Scope** A national trade association representing the fluid fertilizer industry worldwide. Consists of 950 member companies in the United States and 16 foreign countries including retail fertilizer dealerships, fertilizer manufacturers, equipment manufacturers, and distributor/jobbers. Serves its membership through support programs in research, technical services, education, legislative action, public relations, and publication services.

**Standardization Activities** Develops guidelines for regulatory authorities writing their own regulations. Assists individuals working with equipment and materials covered by the standards.

**Availability** Sold directly and through ANSI

**Keywords** fertilizer; nitrogen; phosphoric acid; storage; safety; agriculture;

**NATIONAL FIRE PROTECTION ASSOCIATION**

Arthur E. Cote, Assistant Vice President  
and Chief Engineer

Batterymarch Park  
Quincy, Massachusetts 02269  
(617) 770-3000 Telex: 200250  
FAX: (617) 770-0200

Founded: 1896 Standards Staff: 30

<b>Type of Organization</b>	Technical and Educational Organization Standards Developer
<b>Standards Development</b>	Standards developer since 1896. 3,000 individuals serve on 200 NFPA Technical Committees which develop new standards and continually monitor existing documents. National Fire Codes, 1989 Edition, includes 270 fire protection, prevention and suppression codes, standards, recommended practices, guides, and manuals. Approximately 200 NFPA documents are ANSI standards Draft documents and revisions are published for public review and comment
<b>Standards Designation</b>	NFPA prefix
<b>Government Adoption</b>	NFPA documents are referenced by the Occupational Safety and Health Act (OSHA); adopted by Congress for recipients of Medicare and Medicaid; and adopted by Coast Guard; Departments of Veterans Affairs, Health and Human Services, and Housing and Urban Development.
<b>Certification</b>	Administers Certificated Marine Chemist program
<b>Secretariats</b>	Conference of Fire Protection Associations (international) Joint Council of National Fire Service Organizations (U.S.)
<b>Scope</b>	An independent, nonprofit organization with approximately 50,000 individual members and 150 national trade and professional association members worldwide. Activities are technical and educational in nature. Gathers and analyzes fire statistics; performs on-site investigation of significant fires; works on anti-arson projects; and operates five Field Services -- Electrical, Flammable Liquids, Gases, Marine, and Safety to Life. National sponsor of Fire Prevention Week.
<b>Standardization Activities</b>	Active Standards Council which administers standardization activities of 200 technical committees. Standards widely used as the basis of legislation and regulation at all levels of government; many referenced by the federal government and used by insurance authorities for risk evaluation and premium rating.
<b>Availability</b>	Distributed directly and through NSA, IHS, and Global
<b>Keywords</b>	fire prevention; fire protection; fire code; safety;

**NATIONAL FIRE SPRINKLER ASSOCIATION, INC.**

John A. Viniello, President

P.O. Box 1000  
Patterson, New York 12563  
(914) 878-4200

Founded: 1914

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

64 representatives and 54 committees active in standards development.

**Scope**

A national trade association of fire sprinkler manufacturers and installers. Advances the art of automatic control of fire through automatic sprinklers, and the conservation of life and property from fire.

**Standardization  
Activities**

Cooperates with national technical bodies in the preparation of standards and fire protection sections of building codes and ordinances. Sets standards for design, installation, inspection, and maintenance of automatic sprinklers.

Cooperates with the American Insurance Association, Insurance Services Office, Underwriters Laboratories (UL), and Factory Mutual Engineering and Research in the formulation of standards, specifications, and regulations for fire apparatus and their use.

Officially represented on sectional committees functioning under the procedure of the American National Standards Institute (ANSI) engaged in the development and revision of code for pressure piping, pipe threads, and pipe flanges and fittings.

The NFSA is a member of the Southern Building Code Congress, the International Conference of Building Officials, and Code Administrators International. Maintains consistency between codes and standards and coordinates the industry's activities in the model code field with those in the standard making bodies, including National Fire Protection Association, American Society for Testing and Materials, American National Standards Institute, Underwriters Laboratories, Factory Mutual System, and others.

**Formerly**

National Automatic Sprinkler and Fire Control Association

**Availability**

Distributed directly



**Keywords** fire protection; safety; sprinkler;

**NATIONAL FISHERIES INSTITUTE**

Roy Martin, Vice President of Science and Technology

2000 M Street, NW  
Suite 580  
Washington, DC 20036  
(202) 295-5170

Founded: 1945

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Scope** A national trade association that represents U.S. companies engaged in seafood processing, shipping, and distribution.

**Standardization Activities** Works with Department of Commerce, National Marine Fisheries Service to assist in their development of standards.

**Keywords** fish; seafood; marine resources; food;

**NATIONAL FLUID POWER ASSOCIATION**

Shirley C. Seal, Manager of Standards Development  
Industry/National

3333 North Mayfair Road  
Suite 311  
Milwaukee, Wisconsin 53222  
(414) 778-3344 FAX: (414) 778-3361

Founded: 1953 Standards Staff: 3

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1953  
380 members participating in standards activities  
160 active standards  
105 promulgated through ANSI

**Standards Designation** NFPA Recommended Standards, and ANSI/B93.x

**Certification** None.

<b>Secretariats</b>	ANSI/B93, Fluid Power Systems and Products ISO/TC 131, Fluid Power Systems
<b>Scope</b>	A nonprofit trade association serving manufacturers of fluid power (hydraulic and pneumatic) products with 180 corporate members nationwide.
<b>Standardization Activities</b>	Standards activities account for half of the total association programs. Administered through a technical board, under which are organized 16 committees and 150 project groups. Standards cover dimensions, specifications, methods of testing or rating, terminology, symbols, and procedures for systems, as well as individual components, including fluid power cylinders, valves, pumps, motors, sealing devices, conductors, fittings, filters, fluids, servovalves, accumulators, and pneumatic logic devices. Solicits technical input from all affected interests.  Committees and staff participate in standards programs of ANSI, SAE, ASME, ASTM, ISA, and ASLE. Currently developing a certification program for pressure and fatigue rating of fluid power components.
<b>Availability</b>	Sold directly and through ANSI, Global, and IHS
<b>Keywords</b>	fluid power; hydraulic; pneumatic; valves; pumps; seals; fittings; machinery; industrial equipment;

#### **NATIONAL FOOD PROCESSORS ASSOCIATION**

	John R. Cady, President  1401 New York Avenue, NW Suite 400 Washington, DC 20005 (202) 639-5900  Founded: 1907
<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Scope</b>	A national trade association established to help members maintain and improve product quality. Operates research laboratories in Washington, DC; Berkeley, CA; and Seattle, WA. Represents 600 member companies which pack processed-prepared fruits, vegetables, meats, fish and specialty products, including canned, frozen, dehydrated, and other processed food products. Also includes companies that provide equipment, supplies, and services to food processors.

<b>Standardization Activities</b>	Maintains liaison with the National Conference on Weights and Measures for the purpose of developing constructive and uniform laws and regulations on the state level. Also maintains liaison with the U.S. Technical Advisory Group and delegates to meetings of ISO/TC 52 and its subcommittees on international standards for metal cans for food.
<b>Formerly</b>	National Canners Association
<b>Keywords</b>	food processing; food; packaging; food safety; food labeling; pesticide use;

#### **NATIONAL FOREST PRODUCTS ASSOCIATION**

Barry Cullen, President

1250 Connecticut Avenue, NW  
Washington, DC 20036  
(202) 463-2765

Founded: 1902

Standards Staff: 5

**Type of Organization**

Trade Association  
Standards Developer

**Standards Development**

Active in 27 committees  
22 active standards and guides

**Government Adoption**

Specifications adopted by the Departments of Housing and Urban Development and Veterans Affairs; Farmers Home Administration, Department of Defense, General Services Administration, Department of Health and Human Services, and the Council of American Building Officials.

**Scope**

Forest product manufacturers and federation of 30 North American forest industry associations. Represents the industry on national issues concerning timber growth and product manufacture.

**Standardization Activities**

Develops and distributes 6 recommended specifications and standards for the use of lumber and wood products and 16 general construction data guides. Serves on standards committees of ANSI, ASTM, and the National Fire Protection Association.

Standards activity includes development of wood structural design data, design values for wood construction, span tables for joists and rafters, the design of wood frame structures, and permanent wood foundations.



<b>Availability</b>	Sold or distributed directly
<b>Formerly</b>	National Lumber Manufacturers Association (1965)
<b>Keywords</b>	wood; lumber; construction; building;

**NATIONAL HARDWOOD LUMBER ASSOCIATION**

Ernest J. Stebbins, Executive Manager

Box 34518  
 Memphis, Tennessee 38134-0518  
 (901) 377-1818

Founded: 1898

<b>Type of Organization</b>	Trade Association Standards Developer
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<b>Standards Designations</b>	NHLA prefix
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<b>Certification</b>	The association maintains qualified inspectors in the principal hardwood markets and producing districts of the United States and Canada who are authorized to issue certificates of inspection of hardwood lumber and cypress, the correctness of the grades and measurements shown on the certificate being guaranteed by the financial resources of the association. This official inspection service is available to the members and nonmembers on federal, state or local government contracts. Extensive use of this service has been made by the U.S. Defense Supply Agency.
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<b>Scope</b>	United States and Canadian hardwood lumber and veneer manufacturers, distributors, and consumers. Inspects measures, and certifies hardwood lumber.
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<b>Standardization Activities</b>	One of the principal functions is the maintenance of standards for the grading of hardwood lumber, and an inspection staff for the official application of the standards.  Issues biennially a new edition of the Rules for the Measurement and Inspection of Hardwood Lumber, Cypress, and Thin Lumber. NHLA's grade rules are recognized as standard throughout the world.
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Maintains a school in Memphis, Tennessee for training hardwood inspectors.

<b>Availability</b>	Distributed directly
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**Keywords** wood products; lumber; inspection; grading rules; building;

**NATIONAL INFORMATION STANDARDS ORGANIZATION**

Patricia Harris, Executive Director

Post Office Box 1056  
Bethesda, Maryland 20827  
(301) 975-2814

Telex: 197674 NIST UT  
FAX: (301) 975-2128

Founded: 1939

Standards Staff: 3

**Type of  
Organization**

Professional Association  
Standards Developer

**Standards  
Development**

500 members serve on NISO standards committees  
More than 50 published standards

**Standards  
Designation**

Z39

**Government  
Adoption**

Some NISO-developed standards have been adopted by DoD  
or as FIPS standards.

**Secretariats**

ISO/TC, 46/SC 4 Automation in Documentation and  
Information

**Scope**

A professional association which develops technical  
standards used in libraries, information services and  
systems, and publishing.

**Standardization  
Activities**

NISO standards address the communication needs of  
information services, libraries, publishing, and the  
book trade in such areas as: communication formats and  
information transfer, transliteration, preservation of  
materials, forms and records, identification systems,  
publication formats, and library equipment and  
supplies. NISO is designated by ANSI as the U.S. TAG  
to ISO/TC 46 Computer Applications in Information and  
Documentation.

**Availability**

Distributed by Transaction Publishers; draft standards  
available directly from NISO

**Keywords**

library; publishing; information services; books;  
communications;

**NATIONAL INSTITUTE OF BUILDING SCIENCES**

David A. Harris, President

1201 L Street, NW  
Washington, DC 20005  
(202) 289-7800

Founded: 1978

Standards Staff: 25

**Type of  
Organization**

Scientific Society  
Standards Developer

**Secretariats**

Building Seismic Safety Council  
Building Thermal Envelope Coordinating Council  
Wood Protection Council

**Scope**

Congressionally authorized, nonprofit, nongovernmental scientific/technical institution. Functions and responsibilities relate to building regulations in the following four areas: (1) development, promulgation, and maintenance of nationally recognized performance criteria, standards, and other technical provisions for maintenance of life, safety, health, and public welfare suitable for adoption by building regulating jurisdictions and agencies, including test methods and other evaluative techniques relating to building systems, subsystems, components, products, and materials with due regard for consumer problems; (2) evaluation and prequalification of existing and new building technology; (3) conduct investigations in direct support of building regulations and evaluation of new technology; and (4) assembly, storage, and dissemination of technical data and other information directly related to the preceding areas.

**Standardization  
Activities**

Improves the regulatory environment and facilitates the introduction of new and existing products and technology into the building process. Advises both the public and private sectors of the economy with respect to the use of building science and technology in achieving nationally acceptable standards and other technical provisions for use in federal, state, and local housing and building regulations. Publications and services are available to all those who procure, design, construct, use, operate, maintain, and retire physical facilities. Services of the Institute are also useful to other public and private organizations which perform related research and other tasks on which building standards and regulations are based.

The members of the Institute elect a 36-member Consultative Council which provides a direct line of communications with all appropriate trade, professional



and labor organizations, private and public standards, code and testing bodies, public regulatory agencies and consumer groups. The Council is responsible for overseeing the consensus procedures and conduct of consensus activities of the Institute.

Using Compact Disc-Read Only Memory (CD-ROM) technology, the Institute publishes the Construction Criteria Base (CCB). The CCB contains guide specifications, design and construction criteria and standards developed and used by various federal construction agencies. Many of the public and private standards referenced in the guide specifications, including model codes, are contained in the CCB which is available on a subscription basis.

<b>Availability</b>	Distributed directly
<b>Keywords</b>	housing; building; performance criteria; technology; regulations; guide specifications;

#### NATIONAL INSTITUTE OF INFANT SERVICES

John A. Shiffert, Executive Director

Diaper Service Accreditation Council  
2017 Walnut Street  
Philadelphia, Pennsylvania 19103  
(215) 569-3650

Founded: 1938

<b>Type of Organization</b>	Scientific Society Standards Developer
<b>Certification</b>	Sponsors an autonomous professional Diaper Service Accreditation Council which has promulgated standards for plant sanitation, customer service, and marketing practice. The council accredits diaper service applicants who go through self-evaluation and inspection by an independent site committee for evaluation against the standards. Accredited members must maintain all standards as they may be changed in annual review by the council.
<b>Scope</b>	Conducts research into the requirements of diaper processing to meet the sensitivity of infant skin.
<b>Standardization Activities</b>	Standards are established through a process by which an independent accredited medical laboratory under the supervision of a clinical pathologist conducts microbiological and patch test studies on infants to establish standards. The laboratory then devises

testing procedures by which random sample diapers can be tested routinely against the prescribed standards.

Standards are raised from time to time as new knowledge is revealed by the continuing research program. The diaper test now include five major areas: (1) a sanitary score, awarded on the basis of microorganisms found on the sample; (2) a pH test by the calorimetric procedure, to show that the sample meets the acceptable range of 4.5 to 6.5; (3) evidence of impregnation of the sample with an EPA-approved bacteriostat; (4) a softness test with freedom from stiffness or spilling; and (5) an absorbency test so that water added drop by drop enters the fabric immediately. A diaper service must meet these standards in order to establish qualification and maintain membership.

<b>Availability</b>	Distributed directly
<b>Formerly</b>	Merger of the Diaper Service Industry Association and the National Institute of Diaper Services (1971)
<b>Keywords</b>	infant service; public health; consumer products;

#### NATIONAL INSTITUTE OF OILSEED PRODUCTS

Janet M. Esary, Executive Secretary

2600 Garden Road  
Suite 208  
Monterey, California 93940  
(408) 649-1204

Founded: 1934

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Certification</b>	Chemists Certification Program requires annual successful completion of the American Oil Chemists' Society Smalley Check Sample Series.
<b>Scope</b>	A nonprofit organization devoted to promoting the vegetable oils and vegetable oil products industry. Informs members of the uses and economic conditions affecting vegetable oil products -- their manufacture, distribution, and sale.
<b>Standardization Activities</b>	Maintains and publishes annually, uniform trading rules containing standard terms and conditions for which the products may be traded. These rules cover product grade and quality specifications, quantity specifications, sampling and chemical analysis

procedures, adjustments and settlement of disputes by arbitration.

Cooperates with the International Association of Seed Crushers (Europe), Philippine Coconut Oil Producers Association, Philippine Copra Exporters Association, and the U.S. Department of Agriculture in efforts to improve product quality and establish higher standards of trade practices, which are then incorporated in the rules.

**Availability** Distributed directly

**Keywords** oil seed; vegetable oil; food; agriculture;

#### NATIONAL KEROSENE HEATER ASSOCIATION

Diane G. Thorne, Administrative Director

First American Center, #15  
Nashville, Tennessee 37238  
(615) 254-1961

Founded: 1981

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** 2 active standards

**Certification** A certification seal program has been developed that requires listing to Underwriters Laboratories Standard 647 and compliance with additional standards developed by the NKHA.

**Scope** A not-for-profit association of 80 member firms dedicated to consumer education and high product standards. It establishes and updates technical, labelling, and safety standards.

To be a "Regular" member, a firm must be "engaged in manufacturing, trading, and/or national or international marketing of kerosene heaters or kerosene which meets the minimum safety standards established by the Association." Their kerosene heaters must also be in compliance with UL 647 - Standard for Unvented Kerosene-Fired Room Heaters and Portable Heaters.

Association programs include ongoing public affairs programs to educate and assist lawmakers, fire and safety agencies, other public officials, and the general public on the benefits and safe use of kerosene



heaters. The Association updates members on regulatory issues, industry trends, technological advances, and safety matters.

**Standardization  
Activities**

Kerosene heaters manufactured or sold by NKHA members must meet minimum safety standards adopted by the NKHA Board of Directors.

The NKHA Standards and Technical Committee reviews safety standards and testing procedures and evaluates worldwide technical developments and data related to kerosene heaters. Only those heaters incorporating advanced technology and state-of-the-art safety features conform to NKHA standards.

The Association campaigns for comprehensive product safety standards and legislation and has recommended more stringent standards in evaluating the safety of kerosene heaters.

Currently two standards are in effect: Standard for Marking of Portable Kerosene Heaters, and Standard for Marking of Kerosene Containers.

**Availability**

Distributed directly

**Keywords**

heating; energy; safety; consumer products;

**NATIONAL LEAGUE FOR NURSING**

Mary F. Liston, Ed.D., Acting Executive Director

10 Columbus Circle  
New York, New York 10019  
(212) 582-1022

Founded: 1952

**Type of  
Organization**

Professional Society  
Standards Developer

**Government  
Adoption**

The National League for Nursing is officially recognized as the national accrediting agency for nursing education by the U.S. Department of Education.

**Scope**

Individuals in nursing and other health professions, nursing educational institutions, hospitals, home and community health agencies, and providers of nursing and other health care services. Works to assess nursing needs, improve organized nursing services and nursing education, and foster collaboration between nursing and other health and community services. Develops and promotes criteria for self-evaluation of hospital and

other institutional nursing services.

**Standardization  
Activities**

Develops and improves the standards of quality nursing education, nursing service, and health care delivery in the United States. Administers accreditation of educational programs in nursing. Officially recognized as the national accrediting agency for nursing education by the Council on Postsecondary Accreditation (COPA) and by the U.S. Department of Education.

Criteria for educational programs are developed and approved by nurse educators and address the program's organization, administration, students, faculty, curriculum, resources, facilities, and services. Standards for community and home health agencies, approved by leaders in the field of community health, address community assessment, organization and administration, program, staff, evaluation, and future plans.

**Availability**

Distributed directly

**Formerly**

American Society of Superintendents of Training Schools for Nurses (1893)  
National League of Nursing Education (1912)  
National Organization of Public Health Nursing and the Association of Collegiate Schools of Nursing (1952)

**Keywords**

nursing; public health; education;

**NATIONAL LIME ASSOCIATION**

Kenneth A. Gutschick, Technical Director

3601 North Fairfax Drive  
Arlington, Virginia 22201  
(703) 243-5463 FAX: (703) 243-5489

Founded: 1902

**Type of  
Organization**

Trade Association  
Work through other organizations to develop standards

**Representation**

Active in ASTM, AWWA, and other organizations in developing standards

**Secretariats**

ASTM C7 on Lime; ASTM C12 on mortar; AWWA lime specification committee

**Scope**

An association of commercial producers of quicklime and hydrated lime. Members provide about 85% of the commercial lime used in the United States - for steelmaking; water, sewage and waste treatment; sulfur

dioxide removal from flue gasses; industrial chemicals; stabilization for road and airfield construction; mortar and plaster, etc.

**Standardization  
Activities**

Engages in committee work with American Society for Testing and Materials, American National Standards Institute, American Road and Transportation Builders Association, American Water Works Association, Air Pollution Control Association, Construction Specifications Institute, etc., in standards related to lime. Instrumental in working to develop specifications which will be reasonable and helpful to the hundreds of users of lime and lime products.

Publications include guidelines for using lime for Water Supply and Treatment; Lime Handling, Application & Storage in Treatment Processes; Lime Stabilization Construction Manual; Flexible Pavement Design Guide; Effective Use of Lime in Asphalt; Specifications for Lime and Its Uses in Plastering Stucco, Unit Masonry, and Concrete; Map of Commercial Lime Producers.

**Keywords**

lime; calcium oxide; calcium hydroxide; magnesium oxide; magnesium hydroxide; burnt lime; quick lime; hydrated lime; high calcium lime; dolomitic lime; mortar; soil stabilization; flue gas desulfurization; neutralization;

**NATIONAL LUBRICATING GREASE INSTITUTE**

Duane J. Fike, General Manager

4635 Wyandotte Street  
Kansas City, Missouri 63112  
(816) 931-9480 FAX: (816) 753-5026

Founded: 1933

**Type of  
Organization**

Trade Association/Technical Society  
Standards Developer

**Standards  
Development**

200 members active in standards development

**Standards  
Designation**

NLGI

**Certification**

NLGI Reference Systems available for use as research tools in the development and evaluation of lubricating grease formulations.

**Scope**

A technical society whose objectives are the development of better lubricating greases for the



consumer and better grease lubricating engineering service to the industry. Collects and disseminates technical data.

**Standardization  
Activities**

Develops standards within ASTM and Recommended Practices with SAE. Also maintains liaison with other groups including API, STLG, Independent Lubricant Manufacturers Association (ILMA), National Petroleum Refiners Association (NPRA), and Petroleum Packaging Committee (PPC). Maintains Technical Committee charged with developing data pertinent to the manufacture, standardization, and application of industry products. Works with ISO to develop standardized definitions. Developed NLGI Chassis and Wheel Bearing Service Classification System. NLGI consistency numbers recognized worldwide as the measure of one important grease characteristic. Cooperates with various Government agencies including DoD, NIST, FTC, and ICC.

**Availability**

Distributed directly

**Formerly**

National Association of Lubricating Grease Manufacturers, Inc. (1936)

**Keywords**

greases; lubricants; petroleum products; consistency number; materials;

**NATIONAL MARINE ELECTRONICS ASSOCIATION**

Robert H. Sassaman, Executive Director

Post Office Box 50040  
2756 Dauphin Island Parkway  
Mobile, Alabama 36605  
(205) 473-1793 FAX: (205) 473-1669

Founded: 1957

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards Committee composed of design engineers, representing manufacturers and service dealers of marine electronic communication and navigation equipment. Committee membership is on a voluntary basis and functions at the direction of the association Board of Directors.

**Standards  
Designation**

NMEA 0180, NMEA 0182, NMEA 0183

**Representation**

IEC/TC 80/WG 6

<b>Scope</b>	A nonprofit trade association of companies involved in the manufacture, distribution, sales and service of ship-board marine electronic devices for communications, navigation, automation and acoustics. Aims to distribute industry information, contribute to U.S. and international rules and regulations and provide leadership to improve quality of industry.
<b>Standardization Activities</b>	Beginning in 1980, established standard interface formats for transmission of data communications between marine electronic equipments to eliminate incompatibility among manufacturers and facilitate the ability of sellers and purchasers to interchange devices regardless of brands. Standards in use throughout the worlds by voluntary application. In 1988, a working group (WG 6) was established by TC 80 of the IEC to produce a draft standard for digital interface for navigation equipment within a ship. NMEA, working through ANSI, is now the technical committee representing the United States. With the NMEA 0183 Standard as a basis, a final standard will be adopted as an official international standard.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	marine electronics; navigation; data transmission; telecommunications;

#### **NATIONAL MODEL RAILROAD ASSOCIATION**

	Deborah Z. Millard, Office Manager
	4121 Cromwell Road Chattanooga, Tennessee 37421 (615) 892-2846
	Founded: 1935
<b>Type of Organization</b>	Service Organization Standards Developer
<b>Standards Development</b>	Has developed standards since 1936
<b>Standards Designation</b>	NMRA Standards NMRA Recommended Practices
<b>Certification</b>	Grants an NMRA Conformance Warrant to products conforming to NMRA standards.
<b>Scope</b>	Advances the hobby of scale model railroading through the development, adoption, and regulation of standards; promotes cooperation and understanding between

producers and users of hobby materials; and increases opportunities for fellowship among model railroaders. Membership comprises about 27,000 persons active in the field in the United States and throughout the world.

**Standardization  
Activities**

Establishes and maintains design standards for the manufacture of components for use in the hobby. These are intended to insure interchange between items produced by various sources and to improve performance. Adopted in 1936, specifications have been followed continuously by producers of scale railroad models and parts since that time, including refinements as the state of the art progressed.

Standards define track and wheel relationships, electrical power specifications, and clearance dimensions between rolling stock and trackside structures. NMRA recommended practices cover desirable characteristics other than those necessary for physical interchange and are intended to enable manufacturers to improve their product in a manner most suited to the user's needs. A General Engineering Committee is charged with responsibility for development of standards and recommended practices, and a separate Conformance-Inspection Committee checks manufactured products for compliance. Items meeting the standards and specifications are granted an NMRA Conformance Warrant which may be used in advertising as long as continued compliance is indicated by repeat inspections.

**Availability**

Distributed directly

**Keywords**

scale models; railroads; hobby; recreation;

**NATIONAL OAK FLOORING MANUFACTURERS ASSOCIATION**

Walter Whitley, Executive Vice President

22 North Front Street

660 Falls Building

Post Office Box 3009

Memphis, Tennessee 38103

(901) 526-5016

FAX: (901) 526-5016

Founded: 1909

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1920



**Standards  
Designation**

Official Floor Grading Rules; OFI/NOFMA

**Certification**

Members whose products comply may use NOFMA/OFI trademark.

**Scope**

Manufacturers of hardwood flooring. Promotes standardization; conducts grade labeling and inspection services; maintains research program in grading, handling, packaging, and installation. Compiles statistics and sponsors installation school. An affiliate of the National Forest Products Association. Works with the VA, FHA, and other Government agencies dealing with housing, also the National Association of Home Builders, and the National Lumber and Building Material Dealers Association.

**Standardization  
Activities**

Standardization and simplification activities carried on by its Grading, Milling, and Inspection Committee. Adopted official rules on oak, birch, beech, hard maple, and pecan flooring which cover in detail the grades and sizes of quartered and plain sawn stock. Cooperates with the federal government in the formulation of the federal specification for hardwood flooring (Lumber and Timber: Hardwood, MM-L-736C), which includes references to the grading rules of the association. Maintains rigid supervision of species, manufacturing, kiln drying, bundling, and other features pertaining to oak, birch, beech, and hard maple so that sizes and grades will be maintained. Use of the association's registered trademark "NOFMA" has been granted to members whose stock of oak flooring has been found to comply with the association's official grading rules. Maintains a reinspection service available to retail dealers who purchase products of member companies in the event there is doubt concerning the quality of stock purchased.

**Availability**

Sold directly

**Formerly**

Oak Flooring Manufacturers of United States (1930)  
Southern Oak Flooring Industries (1933)

**Keywords**

oak; grading rules; inspection; flooring; wood floors;  
lumber; building; wood products;

**NATIONAL OFFICE PRODUCTS ASSOCIATION**

Martha H. Wahoski, Director  
Industry Information Systems

301 North Fairfax Street  
Alexandria, Virginia 22314-2696  
(703) 549-9040 or (800) 542-6672/(800) 642-6672 in VA

Founded: 1904

Standards Staff: 33

**Type of  
Organization**

Trade Association  
Standards Developer

**Representation**

ANSI X12, FACT

**Scope**

A national trade association of companies involved in the manufacturing, distribution and sale of office products and office furniture.

**Standardization  
Activities**

Focuses on standards involved with the implementation of business automation technologies. Provides publications on standards dealing with bar code technology and business documents such as Universal Product Code, Interleaved 2 of 5, Furniture Industry Bar Code Standard and Electronic Data Interchange.

**Keywords**

office supplies; office furniture; office equipment;

**NATIONAL OILSEED PROCESSORS ASSOCIATION**

Sheldon J. Hauck, President

1255 23rd Street, NW  
Washington, DC 20037  
(202) 452-8040

FAX: (202) 833-3636

Founded: 1930

**Type of  
Organization**

Trade Association  
Standards Developer

**Certification**

Provides certification for Official Weighmasters; Automatic Sampler Installation at Vessel Loading Facilities; and Automatic Sampler Installation at Barge Loading Transfer Facilities.

**Scope**

Fourteen regular member firms engaged in the actual processing of oilseeds; 22 associate member firms who are consumers of vegetable oil or oilseed meal, including some refiners and mixed feed manufacturers. Promote the domestic and international marketing of all types of oilseed products through development of equitable trading rules for buyers and sellers of such products; foster intense research activity aimed at improving and increasing yields and productivity of oilseed crops; promote the sale of oilseed products internationally; and educate domestic and international consumers to the benefits of utilizing oilseed products.

**Standardization  
Activities**

Adopts standard specifications for crude, domestic soybean oil covering quality, grade, and methods of

analysis. Establishes recommended soybean oil and meal trading rules. Helps establish product definitions for the formula feed industry.

**Availability** Sold directly

**Keywords** soybean meal; soybean oil; agriculture;

**NATIONAL OPERATING COMMITTEE FOR STANDARDS IN ATHLETIC EQUIPMENT**

Glen Meredith, Executive Director

11724 Plaza Circle  
Kansas City, Missouri 64153  
(816) 464-5470

**Type of Organization** Trade Association  
Standards Developer

**Scope** Trade association of secondary school athletics administrators.

**Standardization Activities** Develops, publishes and distributes standards for athletic equipment used by secondary school students.

**Keywords** athletic equipment; sports; safety;

**NATIONAL PARTICLEBOARD ASSOCIATION**

William H. McCredie, Executive Vice President

18928 Premiere Court  
Gaithersburg, Maryland 20879  
(301) 670-0604

Founded: 1960

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Active Standards:  
4 active standards  
2 ANSI standards

**Standards Designation** NPA or ANSI prefixes

**Government Adoption** The U.S. Department of Housing and Urban Development references 2 standards.

**Certification** Certification of products for particleboard and medium density fiberboard producers.



<b>Secretariats</b>	ANSI A 208, standards developed by the canvass method
<b>Scope</b>	Represents manufacturers of particleboard and medium density fiberboard to governmental agencies, sponsors voluntary standards development activities, compiles industry statistics, coordinates product and application research, and publishes technical and promotional literature.
<b>Standardization Activities</b>	Eighteen member companies and 40 non-NPA companies, agencies, and interested parties participate in standards activities. NPA currently sponsors four industry standards: ANSI A208.1-1989 Wood Particleboard; ANSI A208.2-1986 Medium Density Fiberboard For Interior Use; NPA 9-87 Voluntary Standard for Formaldehyde Emission From Medium Density Fiberboard (MDF); NPA 1-82 Standard for particleboard Mobile Home Decking.
<b>Availability</b>	Sold directly and through ANSI
<b>Keywords</b>	particleboard; fiberboard; formaldehyde; wood products; wood panels

#### NATIONAL PEST CONTROL ASSOCIATION

George Rambo, Director of Research, Education & Technical Resources

8100 Oak Street  
Dunn Loring, Virginia 22027  
(703) 573-8330

Founded: 1933

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	ASTM, NIBS, DOD, HOD, USDA
<b>Scope</b>	Represents the urban pest control industry in the United States. Member firms engage in control of insect, weed, and certain vertebrate pests. These pests left to multiply in urban or suburban centers would damage stored food, wood based dwellings, or actively transmit organisms that result in fatal or debilitating human disease. Although NPCA has many international members its major function is to represent domestic urban pest control interests.
<b>Standardization Activities</b>	Publishes specific guidelines such as Statements of Good Practice and various reference procedures that are developed by technical and/or management committees and formally approved in some cases by vote of the entire

membership or by vote of its executive management board. NPCA works actively on ASTM committee E-35 and D225 and committees of the National Institute of Building Sciences, particularly Indoor Air Quality. Both organizations promulgate standards that involve aspects of urban pest management.

**Keywords**

pest control; vector control; insect control; rodent control; structural protection; subterranean termite control; indoor air quality; public health; sanitation;

**NATIONAL PRINTING INK RESEARCH INSTITUTE**

C/O NAPIM  
47 Halstead Avenue  
Harrison, N.Y. 10528  
(914) 835-5650

J. M. Fetsco, Technical Administrator

Sinclair Lab Building #7  
Lehigh University  
Bethlehem, Pennsylvania 18015

Founded: 1946

**Type of  
Organization**

Scientific Society

**Scope**

Engages in projects to investigate problems of mutual interest to the printing ink and printing industries.

**Standardization  
Activities**

Publishes raw material data handbooks on materials used in manufacturing printing ink. Coordinates with ASTM on developing test methods used within the printing ink industry. Develops monographs on subjects of interest to the printing ink industry.

**Availability**

Distributed through NAPIM.

**Keywords**

ink; printing ink; communications;

**NATIONAL PROPANE GAS ASSOCIATION**

Hal M. Faulconer, Vice President, Technical Resources

1600 Eisenhower Lane  
Lisle, IL 60532  
(708) 515-0600

FAX: (708) 515-8774

**Type of  
Organization**

Trade Association for the Propane Industry.  
Works through other organizations to develop standards.

<b>Representation</b>	Representatives on Standards Committees of ANSI, ASTM, NFPA, ASME and API.
<b>Scope</b>	A vertically structured national trade association of companies and individuals involved in the production, transportation, distribution, and marketing of liquefied petroleum gas.
<b>Standardization Activities</b>	Provide input to and representation on various standards making organizations. Focus is on standards associated with the safe handling and use of LP-Gas and the associated equipment and material.
<b>Keywords</b>	energy; safety; liquified petroleum gas; LP-Gas;

#### NATIONAL RETAIL MERCHANTS ASSOCIATION

James R. Williams, President

100 West 31st Street  
New York, New York 10001  
(212) 244-8780

Founded: 1911

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Participates in the development of standards in cooperation with ANSI No NRMA standards are processed through ANSI Standards are developed by committees of the membership
<b>Scope</b>	The nations largest trade association representing the general merchandise retail industry with 4,500 individual corporate members operating approximately 45,000 department, chain, specialty and independent stores in the United States and an additional 1,000 stores in 50 nations abroad. NRMA members' aggregate domestic sales are in excess of \$150 billion annually and they employ more then three million workers. Devoted to the exchange of information among retailers and to research and education. Takes an active part in the formulation of standards and specifications relative to retail store organization, retail trade terminology, business practices, and specifications for commodities used in the trade. Cooperates actively with ANSI and other technical and trade organizations and the government.
<b>Standardization Activities</b>	Endorsed the Universal Product Code (UPC) for uniform merchandise identification acceptable to both general merchandise retailers and vendors. Developed, made available and maintains standard color and size codes



for common usage between retailers and manufacturers. Participates in the General Merchandise and Apparel Implementation Committee of the Uniform Code Council (secretariat for the UPC) in standards definition and approval for merchandise marking, shipping, container labeling and identification and definition of standards for ANSI X.12 Electronic Data Interchange (EDI) fields, usage and transaction sets. Is active on the EDI Advisory Committee of the Uniform Code Council and in the Federation of Automated Coding Technologies (FACT). Offers the Standard Color and Size Code Handbook.

Initiated programs for the establishment of several Simplified Practice Recommendations under the auspices of the National Institute of Standards and Technology (NIST). Formerly cooperated with NIST in the revision of several Simplified Practice Recommendations, and cooperates actively with NIST in the establishment of standard sizing of all apparel.

**Formerly**

National Retail Dry Goods Association (1958)

**Keywords**

merchandise; retailing; merchandise identification; sizes; business; consumer goods;

**NATIONAL RIFLE ASSOCIATION OF AMERICA**

J.Warren Cassidy, Executive Vice President

1600 Rhode Island Avenue, NW  
Washington, DC 20036  
(202) 828-6000

Founded: 1871

**Type of  
Organization**

Educational and Sports Association  
Standards Developer

**Representation**

The Association is represented on the National Health and Safety committee of the Boy Scouts of America and on various Committees and the Board of Directors of the National Safety Council.

**Certification**

Standards for paper targets are enforced through a licensee process. When the specified standards are met, an "Official NRA Target" designation is given to the manufacturer for printing on the target. The NRA certifies marksmanship and firearm safety instructors and referees, and approves, when certain standards have been met, training courses and qualification courses for police departments, military and civilian rifle and pistol clubs.

<b>Secretariats</b>	The NRA, as the National Governing Body for the shooting sports in the United States, represents all U.S. shooters to the International Shooting Union (ISU) and has input to standards for targets and ranges, in addition to rules for international and Olympic competition.
<b>Scope</b>	Nonprofit membership organization with more than 2.7 million members and 12,000 affiliated local clubs and state organizations all interested in firearms or the shooting sports.
<b>Standardization Activities</b>	Prepares and provides standard construction plans for a large variety of shooting ranges for different guns and events. Also standardized are paper and metal targets used in training and competition. These standards are researched and established by various specialized program committees and channelled through NRA's Competition Rules and Programs Committee and Board of Directors. Standards are included in annually revised competitive rule books, in annual meeting reports, and special shooting range literature and program outlines and manuals.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	shooting ranges; targets; safety; recreation; sports;

#### NATIONAL ROOF DECK CONTRACTORS ASSOCIATION

	Craig Cox, President
	600 South Federal Street, Ste. 400 Chicago, IL. 60605 (312) 922-6222
	Founded: 1959
<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Scope</b>	Promotes the welfare of the structural roof deck systems industry by analyzing and informing the membership of conditions affecting the industry, informing the membership of improved operating methods and procedures, and conducting education and research activities.
<b>Standardization Activities</b>	Develops or assists in the development of standard tests and test methods for industry products. Participate in model code development and with other government and public bodies involved with building, construction, and the installation of structural roof deck systems.

**Formerly** Gypsum Roof Deck Foundation Association (1980)  
**Keywords** built-up roofing; building;

**NATIONAL ROOFING CONTRACTORS ASSOCIATION**

William A. Good, Executive Vice President

6250 River Road, Suite 8030  
Rosemont, IL. 60018  
(312) 318-6722

Founded: 1886

**Type of Organization** Trade Association  
Standards Developer  
Works with other organizations to develop standards

**Scope** Contractors applying asphalt, asbestos, coal tar pitch, elasto/plastic, slate, tile, metal, and wood roofs. Sponsors instruction for roofing superintendents and holds management institutes.

**Standardization Activities** Dedicated to the improvement of systems standards for all roofing systems. Studies materials and application procedures and standards through various technical committees. Has joint liaison groups with various materials manufacturer organizations and government bodies. Conducts test programs with other industry organizations on a joint basis. Aims to enhance the development of improved material and application standards for the roofing industry.

Produced a Roofing and Waterproofing Manual that provides recommended procedures, practices and evaluative comments on roofing specifications, construction details, and roofing materials. Cooperates with the National Institute of Standards and Technology to conduct technical conferences. Also conducts an international symposium on roofing technology every five years.

**Availability** Distributed directly

**Keywords** roofing; building;



## NATIONAL SAFE TRANSIT ASSOCIATION

Ellis Murphy, Executive Director

43 East Ohio  
Chicago, Illinois 60611  
(312) 645-0083

Founded: 1948

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

3 Preshipment Test Procedures

**Certification**

Certifies laboratories' ability to perform testing services in accordance with NSTA procedures so that they, in turn, can certify that packages tested meet approved criteria and be designated "NSTA Safe Transit Tested."

**Scope**

A voluntary, cooperative program which aims to reduce in-transit damage through a standardized program of preshipment testing, certification, and identification.

**Standardization  
Activities**

Committee research and discussion leading to the standards for the preshipment testing of packaged products. Activity covers both testing procedures and performance levels.

**Availability**

Sold directly

**Formerly**

National Safe Transit Committee

**Keywords**

packaging; containerization; transportation;

## NATIONAL SAFETY COUNCIL

Robert Currie, Standards Administration

444 North Michigan Avenue  
Chicago, Illinois 60611  
(312) 527-4800                      Telex: 25-3141

Founded: 1913

Standards Staff: 1

**Type of  
Organization**

Technical Society  
Works through other organizations to develop standards

**Representation**

Representatives on more than 50 standards committees of ANSI, ASTM, NFPA, ASME, and ASAE

**Secretariats**

ANSI A10, D16, L1, Z16, Z41, Z244

<b>Scope</b>	A nonprofit, nongovernmental public service organization. Aims to determine and evaluate methods and procedures that prevent accidents and mitigate injury and economic loss resulting from accidents, and to provide leadership to expedite the adoption and use of those methods and procedures that best serve the public interest. Functions in the areas of occupational safety and health, traffic safety, motor transportation safety, product safety, and consumer safety.
<b>Standardization Activities</b>	Focuses on standards concerned with safety of products or systems and with accident/injury record systems. In its materials and publications, references all of the appropriate codes and standards adopted by nationally recognized consensus standard producing organizations. Represented on ANSI's Organizational Member Council, the Safety and Health Standards Board, and the ANSI/OSHA Coordinating Committee.
<b>Keywords</b>	safety; accident prevention; occupational health; traffic safety; consumer products; social welfare;

#### **NATIONAL SANITATION FOUNDATION**

	James G. Kendzel, Manager Standards Development
	P.O. Box 1468 NSF Building 3475 Plymouth Road Ann Arbor, Michigan 48106 (313) 769-8010
	Founded: 1944                      Standards Staff: 3
<b>Type of Organization</b>	Voluntary Research, Standards, and Testing Organization Standards Developer
<b>Standards Development</b>	Standards developer since 1944 40 active standards and criteria Voluntary program involving the active cooperation of the manufacturer, the user, and the regulatory officials Accredited by ANSI Five processed through ANSI
<b>Government Adoption</b>	Many U.S. regulatory jurisdictions require by law, regulations, or department policy, products which comply with NSF standards or criteria.
<b>Certification</b>	Products determined in compliance with NSF standards or criteria by NSF Certification Services are authorized for listing and display the NSF Mark.

<b>Scope</b>	A noncommercial, not-for-profit standards, research, testing, and educational organization. Seeks answers in environmental health, and establishes public and environmental health standards with the cooperation of all concerned.
<b>Standardization Activities</b>	Involves approximately 1,400 domestic and foreign manufacturers who use the NSF Mark on products meeting the applicable standard or criteria. Publishes and distributes a list of available standards as well as annual listings covering food service equipment, plastic piping system components and materials, swimming pool equipment, drinking water direct and indirect additives, and special categories, including plumbing components for mobile homes and recreational vehicles, water and wastewater treatment devices, biohazard cabinetry, and flexible membrane liners.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	food equipment; plastic pipe; swimming pool; mobile homes; recreational vehicles; water; waste; environment; public health; sanitation; building; drinking water additives;

#### NATIONAL SASH AND DOOR JOBBERS ASSOCIATION

Robert T. O'Keefe, Executive Vice President

2400 E. Devon Avenue, Suite 314  
Des Plaines, Illinois 60018  
(708) 299-3400

Founded: 1964

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Scope</b>	Promotes the use and increased consumption of stock millwork and related building products, including new products; advocates and promotes the sale of such products through sash and door jobbers; promotes the growth of the industry.
<b>Standardization Activities</b>	The association supports the development of standards related to window and door products. In cooperation with the National Wood, Window and Door Association (NWWDA), helped prepare and further commercial standards relating to double hung casement, awning, and single hung wood window units which have been incorporated into NWWDA's Industry Standard 2.



Initiated and developed Voluntary Product Standard PS 32-70 for wood interior hinged door units which was promulgated by the Department of Commerce in 1970. To maintain the existence of a nationally recognized standard, NSDJA has developed the Recommended Product Standard for Interior Pre-hung Door Units (PS 1-79).

**Formerly**

Formed by the merger of the Northern Sash and Door Jobbers Association (1935) and the Southern Sash and Door Jobbers Association (1935)

**Keywords**

windows; doors; sash; millwork; building; wood products;

**NATIONAL SCHOOL SUPPLY AND EQUIPMENT ASSOCIATION**

Tim Holt, Executive Vice President

2020 N. 14th Street, Suite 400  
Arlington, Virginia 22201  
(703) 524-8819

Founded: 1916

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Certification**

Issues certification when operable and folding walls are tested for sound transmission loss in accordance with ASTM E90.

**Scope**

Manufacturers and distributors of school supplies, equipment, and instructional materials. Operating Divisions address the needs of manufacturers and users of auditorium, theatre, bleacher, and classroom seating, as well as play ground equipment, and operable partitions.

**Standardization  
Activities**

Operable Partition Section of NSSEA has endorsed ASTM E557-77 which provides a standard for the application and installation of operable partitions. Also issues testing procedures for measuring sound transmission loss.

**Availability**

Distributed Directly

**Formerly**

National School Service Institute (1958)

**Keywords**

partitions; school equipment; noise control; education; buildings;

## NATIONAL SLAG ASSOCIATION

William E. Mattison, President

300 South Washington Street  
Alexandria, Virginia 22314  
(703) 549-3111

Founded: 1918

Standards Staff: 2

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

Represented on technical committees of the American Society for Testing and Materials, American Concrete Institute, Association of Asphalt Technologists, Highway Research Board, American Railway Engineering Association, American Society of Civil Engineers.

**Scope**

A technically-oriented organization representing companies processing over 95% of the steel-industry slag used in the USA. Conducts technical meetings and disseminates information from world-wide sources concerning the production, processing, properties, and use of steel-industry slags. Represents members on a large number of national, state, and local specification and standardization organizations. Provides information and technical consulting services to members, architects, engineers, contractors, and other organizations.

**Standardization  
Activities**

Cooperates actively with specification-writing organizations at national and state levels in formulating and revising aggregate specifications and in developing standards covering test procedures. Standardization of aggregates is further promoted by research dealing with aggregates and their end-use products, conducted in the association's laboratory located in Youngstown, Ohio.

**Keywords**

slag; aggregate; construction; materials;

## NATIONAL SOCIETY TO PREVENT BLINDNESS

Michael L. Weamer, Executive Director

500 E. Remington Road  
Schaumburg, Illinois 60173  
(708) 843-2020

Founded: 1908

**Type of  
Organization**

Scientific Society  
Standards Developer

<b>Representation</b>	ANSI K61, Z80, Z87 ASTM F8.57
<b>Secretariats</b>	ANSI Z87 Committee
<b>Scope</b>	The oldest voluntary health agency nationally engaged in the prevention of blindness through a comprehensive program of community service, public and professional education, and research.
<b>Standardization Activities</b>	With advice and guidance of professional scientific advisory committees, develops standards for vision screening of preschool and school age children, for eye safety programs in schools and industry, for glaucoma screening, and for services providing low vision aids to the partially sighted.
<b>Availability</b>	Sold directly and through ANSI
<b>Formerly</b>	Formed by Merger of New York State Committee for the Prevention of Blindness and the American Association for the Conservation of Vision (1918) National Committee for the Prevention of Blindness (1927)
<b>Keywords</b>	blindness prevention; eye protection; public health; social welfare;

#### **NATIONAL SOFT DRINK ASSOCIATION**

William L. Ball, III., President

1101 16th Street, NW  
Washington, DC 20036  
(202) 463-6732

Founded: 1919

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Three active standards
<b>Standards Designation</b>	VPS, ANSI/VPS, and VS prefixes
<b>Government Adoption</b>	PS 73-89 Carbonated Soft Drink Bottles (1989)
<b>Scope</b>	Provides manufacturers of soft drinks throughout the United States and others interested in the welfare of the industry a forum to discuss matters of common interest, provides a medium for improving soft drink



plant operating procedures, conducts research on problems relating to the industry, and provides informational and educational services in the interest of the consumer.

<b>Standardization Activities</b>	Instrumental in the development of voluntary standards or guide lines, designed for the betterment of the consumer and the bottling and packaging activities of the industry.
<b>Availability</b>	Sold directly, through Government Printing Office, and ANSI
<b>Formerly</b>	American Bottlers of Carbonated Beverages (1967)
<b>Keywords</b>	soft drinks; beverages; packaging;

#### **NATIONAL SOLID WASTES MANAGEMENT ASSOCIATION**

John A. Legler, Deputy Director, Equipment and Risk Management

1730 Rhode Island Avenue, Suite 1000  
Washington, DC 20036  
(202) 659-4613 FAX: (202) 775-5917

Founded: 1964

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Designation</b>	ANSI Z245.x
<b>Certification</b>	Waste Equipment Manufacturers Institute Stationary Compactor Safety Certification Program
<b>Secretariats</b>	ANSI Z245 on Refuse Processing, Collection, and Disposal
<b>Scope</b>	2,500 companies
<b>Standardization Activities</b>	Develops safety standards primarily associated with the solid waste management industry. Includes procedures for the manufacturing, installation, and operation of equipment and facilities. Standards Committee includes manufacturers, distributors, end users or operators, government regulation and/or enforcement agencies, and special purpose or trade associations.
<b>Availability</b>	Distributed through ANSI
<b>Formerly</b>	Absorbed the Incinerator Institute of America (1974)

**Keywords**                   solid waste; refuse; public health; sanitation;  
industrial equipment; recycling; resource recovery

**NATIONAL SPA AND POOL INSTITUTE**

Carvin Di Giovanni, Technical Director

2111 Eisenhower Avenue  
Alexandria, Virginia 22314  
(703) 838-0083

FAX: (703) 549-0493

Founded: 1956

**Type of Organization**           Trade Association  
Standards Developer

**Scope**                   A national trade association comprised of approximately 4,300 swimming pool builders, pool equipment manufacturers and suppliers, architects, engineers, public officials, and others allied with the pool industry. Sets guidelines for pool builders and works toward better pool building and the maintenance of high ethical standards.

**Standardization Activities**   Develops standards for residential and public swimming pools, hot tubs and above-ground pools. Cooperates with the American Public Health Association, National Safety Council, Underwriters Laboratories, National Sanitation Foundation, National Electrical Code, International Association of Plumbers and Mechanical Officials, Consumer Product Safety Commission, and the Young Men's Christian Association of the United States. Provides information and assistance to a number of Government agencies and maintains liaison with other international swimming pool and spa organizations. Follows accreditation procedures of ANSI. Administers a Technical Council which maintains committees in the areas of design, accessory equipment, chemical treatment, circulation systems and publications.

**Availability**           Distributed directly

**Keywords**               swimming pools; spas; hot tubs; consumer products;  
safety; sanitation;

**NATIONAL STANDARDS EDUCATORS ASSOCIATION**

Walter J. McGee, Executive Director

P.O. Box 773  
Placentia, California 92670  
(714) 447-8382

Founded: 1987

Standards Staff: 3

**Type of Organization** Industrial education association  
Works through other organizations to develop standards.

**Representation** 15 members represented on standards committees of organizations such as ASME, ANSI, and ISO.

**Scope** A nonprofit organization of 100 industrial executives, managers, engineers, technicians, educators, and students that promotes, within U.S. industrial and educational societies, the significance and expert knowledge of those standards in common use within American industry.

**Standardization Activities** The association promotes the concept of "management by accountability." This concept fosters the use of certification, accreditation, registration, and licensure to combat the plague of standards illiteracy in America. It has warned industry that a nation that cannot relate to its own standards will not long be competitive in a global market requiring compliance to foreign and international standards. The association promotes testing of our industrial work force on proficiency in those standards and specifications common to their line of work.

The association has initiated its campaign for proficiency testing of the American work force in the field of dimensional metrology. In conjunction with the American Society of Mechanical Engineers, they have focused on the Y14 and B89 standards for its first personnel certification programs.

**Keywords** education; quality assurance; management; general;

#### NATIONAL STONE ASSOCIATION

R.G. Bartlett, President

1415 Elliot Place, NW  
Washington, DC 20007  
(202) 342-1100

Founded: 1918

Standards Staff: 1

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representation** One staff member represents NCSA on committees of ASTM, ACI, and AREA along with other technical societies such as the Transportation Research Board of the National Research Council, Asphalt Paving Technologists, and ASCE.



<b>Scope</b>	A nonprofit trade association supported by producers of stone and manufacturers of plant equipment and supplies used by the crushed stone industry. Serves the quarrying industry.
<b>Standardization Activities</b>	<p>Cooperates with national technical organizations in standardizing specifications, test methods, and recommended practices involving the use of stone. Represented on technical committees of the American Society for Testing and Materials dealing with concrete and concrete aggregates, road and paving materials, and mortars for unit masonry. Participates in technical committee work concerned with the development of recommended practices of the American Concrete Institute, the American Railway Engineering Association, and the Transportation Research Board of the National Research Council.</p> <p>Participates in a joint committee composed of representatives of the National Sand and Gravel Association and the National Slag Association to work on problems of mutual interest.</p>
<b>Keywords</b>	aggregates; materials; construction; stone;

#### **NATIONAL TERRAZZO AND MOSAIC ASSOCIATION**

	Edward A. Grazzini, Executive Director
	3166 Des Plaines Avenue, Suite 24 Des Plaines, Illinois 60018 (312) 635-7744 (800) 323-9736
	FAX: (312) 635-9127
	Founded: 1923
	Standards Staff: 5
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	25 active standards
<b>Government Adoption</b>	All technical manuals and design catalogs are accepted by Government agencies.
<b>Scope</b>	Contractors who install terrazzo and mosaic work and firms which produce or manufacture materials. Provides information to building owners, architects, builders, and terrazzo contractors. Conducts research on installation methods.
<b>Standardization Activities</b>	Maintains a Technical Committee and Quality Control Committee active in standards development. Publishes Technical Data Book which contains 25 standard national

specifications for the installation of both cementitious and resinous terrazzo. Also develops standards on various application and grinding techniques.

**Availability** Distributed directly

**Keywords** terrazzo; mosaic; construction; building; materials;

**NATIONAL TIRE DEALERS AND RETREADERS ASSOCIATION**

Gurnie Hobbs, Director  
Membership Services Division

1250 I Street, NW  
Suite 400  
Washington, DC 20005  
1-(202) 789-2300  
1-(800) 876-8372 or 1-(800) 87-NTDRA

Founded: 1921

**Type of Organization** Trade Association  
Standards Developer

**Scope** An organization of 5,000 independent tire dealers and retreaders in the United States, Canada, and abroad. Concerned with matters which affect the tire dealer and his ability to do business including product development, marketing, legislation, new tires, retread, service, and after market areas.

**Standardization Activities** Heavily committed to retreading, NTDRA maintains a field force of six highly qualified plant inspectors, inspecting 800 retread plants annually. Also provides recommended industry standards to keep the science of retreading at a high level.

**Availability** Distributed directly

**Formerly** National Association of Independent Tire Dealers  
Absorbed the Tire Retreading Institute (1978)

**Keywords** tire; automotive service; automobile parts; retread; transportation;

**NATIONAL WATER WELL ASSOCIATION**

Jay H. Lehr, Ph.D, Executive Director

6375 Riverside Drive  
Dublin, Ohio 43017  
(614) 761-1711

FAX: (614) 761-3446

Founded: 1948

Type of Organization	Technical Society Works through other organizations to develop standards
Representation	American Water Works Association; American Society for Testing and Materials;
Certification	Offers a voluntary Certification Program for both ground water contractors and ground water scientists and engineers. Contractor certification includes one general and 12 specific examinations.
Scope	An organization of water well drilling contractors, manufacturers, wholesale suppliers and professional geologists, hydrologists, and engineers interested in the problems of locating, developing, and utilizing underground water supplies. Objectives of the association include the promotion of scientific development and the advancement of the science of ground water hydrology.
Standardization Activities	Specification Committee cooperates with various organizations in developing standards for well construction and the sampling and monitoring of ground water resources. The National Ground Water Information Center, a service of the Association, maintains an on-line data base of standards applied throughout the ground water industry.
Keywords	wells; water wells; hydrology; public health;

#### NATIONAL WHOLESALE HARDWARE ASSOCIATION

Patricia A. Lilly, Associate Director

1900 Arch Street  
Philadelphia, Pennsylvania 19103  
(215) 564-3484

Founded: 1894

Type of Organization	Trade Association Standards Developer
Scope	A trade association for distributors of hardware products and related lines.
Standardization Activities	Maintains a comprehensive standardized forms program and as a result has issued Standardization of Forms and Information Flow Used in Ordering, Shipping and Billing of Merchandise within the Hardgoods Industry.
Availability	Distributed directly



**Keywords** hardware; forms; data processing;

**NATIONAL WOOD WINDOW AND DOOR ASSOCIATION**

John W. Shoemaker, Executive Vice President

1400 E. Touhy Avenue  
Des Plaines, Illinois 60018  
(312) 299-5200

Founded: 1926

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since early 1920's  
8 product standards; 9 test methods

**Standards  
Designation**

Industry Standards, I.S.

**Government  
Adoption**

HUD, Farmers Home Administration, DoD, and others

**Certification**

Wood Flush Door, Window, Sliding Patio Door, and Water  
Repellent Preservative Programs.

**Scope**

Represents over 100 manufacturers and material  
suppliers in the wood window and door industries.

**Standardization  
Activities**

Active in product standard research and development.  
Works with ASTM and ASHRAE in the development of  
standards for the industry. NWMA standards are  
referenced by the federal government, architects,  
specifiers, builders, and building product suppliers.

**Availability**

Sold directly

**Formerly**

National Woodwork Manufacturers Association (1986)

**Keywords**

windows; doors; millwork; building; wood products;

**NATIONAL WOODEN PALLET AND CONTAINER ASSOCIATION**

John J. Healy, Executive Vice President

1625 Massachusetts Avenue, NW, Suite 200  
Washington, DC 20036  
(202) 667-3670

Founded: 1947

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Scope</b>	Manufacturers and distributors of pallets, pallet containers, boxes, crated, shook, and skids.
<b>Standardization Activities</b>	Publishes standard specifications covering the construction of hardwood, softwood, and plywood pallets. These standards provide minimum requirements for a series of nine quality grades covering various wooden pallets.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Merger of National Wooden Box Association and National Wood Pallet Manufacturers Association (1947)
<b>Keywords</b>	pallets; containers; packaging

#### **NORTH AMERICAN DIE CASTING ASSOCIATION**

Derek L. Cooks, Technical Director

2000 North Fifth Avenue  
River Grove, Illinois 60171-1992  
(312) 452-0700 FAX: (312) 452-0147

Founded: 1954

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Scope</b>	A not-for-profit organization which serves the interests of its members with the overall objectives of improving industry technology productivity and profitability. Member services include providing information and statistics for managers, administrators and engineers. The association has active research and educational programs and produces a considerable number of publications of both technical and managerial nature.
<b>Standardization Activities</b>	The association maintains close links with organizations which set (or are involved with) standards pertaining to the die casting industry. These include the American National Safety Institute, the American Society for Testing Materials, Occupational Safety & Health Administration and the Environmental Protection Agency.
<b>Formerly</b>	Consolidation of American Die Casting Institute and the Society of Die Casting Engineers
<b>Keywords</b>	die casting; cast metals; net shape; metals;

## NORTHEASTERN LUMBER MANUFACTURERS ASSOCIATION

Stephen S. Clark, Executive Vice President

272 Tuttle Road  
P.O. Box 87A  
Cumberland Center, Maine 04021  
(207) 829-6901

Founded: 1933

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

A nonprofit, private organization that promotes the welfare and advancement of the interests of northeast lumber producers.

**Standardization  
Activities**

Maintains a Grading Committee which develops Standards and NELMA Grading Rules. Also serves as the rules writing agency for the northeast for the American Lumber Standards Committee Board of Review.

**Availability**

Distributed directly

**Keywords**

lumber; timber; grading rules; inspection; wood; building;

## NORTHERN TEXTILE ASSOCIATION

see **ELASTIC FABRIC COUNCIL**  
and **FELT MANUFACTURERS COUNCIL**



## OPTICAL LABORATORIES ASSOCIATION

George A. Chase, Ph.D., Director  
Technical Services Department

P.O. Box 2000  
Merrifield, Virginia 22116-2000  
(703) 849-8550

Founded: 1939

Standards Staff: 1

### **Type of Organization**

Trade Association  
Works through other organizations to develop standards

### **Representation**

Represents its American members to both ASTM and ANSI by providing relevant data and input to the creation of consensus standards which affect manufacturer, laboratory, professional, and consumer.

### **Secretariats**

ANSI Committee Z80, Ophthalmic Standards

### **Scope**

An association for independent ophthalmic prescription eyeglass and contact lens fabricators located in the United States and Canada.

### **Standardization Activities**

Its primary objective is the creation and maintenance of voluntary standards which meet the safety and effectiveness needs of the consumer by providing products which perform within the current state of the manufacturing art.

Participates with industry and professions in the maintenance of existing standards to eliminate design in favor of performance requirements wherever possible, and to keep industry standards in line with advances in technology. As new technologies develop, the Association assumes an active role in the assessment of proper performance standards and testing techniques.

### **Formerly**

Central States Wholesalers Association (1939)  
Association of Independent Optical Wholesalers (1942)  
Optical Wholesalers Association (1962)  
Optical Laboratories Association (1977)

### **Keywords**

ophthalmic products; eyeglass; spectacle; contact lens; optical laboratory; low vision aids; intraocular lenses; ophthalmic instruments;

## OPTICAL PRODUCT CODE COUNCIL

Administrator: Optical Manufacturers Association  
6055A Arlington Boulevard  
Falls Church, Virginia 22044  
(703) 237-8433

Founded: 1984

<b>Type of Organization</b>	Trade Association Works with others to develop standards
<b>Representation</b>	Central management and information center for manufacturers and users of bar code system.
<b>Secretariats</b>	ANSI; ASCII
<b>Scope</b>	An association of manufacturers of frames, lenses, and contact lenses in the United States who are users of a standard ordering system for the efficient transfer of product from component manufacturers to processing laboratories.
<b>Standardization Activities</b>	The primary objective is the creation and maintenance of voluntary standards for computerized product coding using bar code and data transmission specifications.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	optical frames; lenses; ophthalmic products;

#### OPTICAL SOCIETY OF AMERICA

Evelyn Roberts, Technical Activities Manager

2010 Massachusetts Avenue NW  
Washington, DC 20036  
(202) 223-8130

Founded: 1916

<b>Type of Organization</b>	Scientific Society Standards Developer
<b>Scope</b>	Primary purpose is to increase and diffuse the knowledge of optics in all its branches, pure and applied; to promote the mutual interests of investigators of optical problems, of designers, manufacturers, and users of optical instruments and apparatus of all kinds; and to encourage cooperation among them.
<b>Standardization Activities</b>	Standardization and specification work handled by technical committees which publish reports in the society's journal on visual sensitometry; colorimetry; photometry; standard wavelengths; nomenclature and standards; photography; radiometry; and spectrophotometry. The latest and most elaborate of these technical reports appeared as a book, The Science of Color, and as a set of uniformly spaced color

samples. Cooperates with other technical organizations in standardization within the various branches of optics. Has a standing committee for review of ISO standards. Cooperates actively with the International Commission for Optics, the International Commission on Illumination and the American National Standards Institute. Maintains representation on boards or committees of the American Institute of Physics, the National Research Council, the American Association for the Advancement of Science, and the Inter-Society Color Council.

**Availability** Sold directly

**Keywords** optics; optic instrumentation; colorimetry; photography

**ORTHOPEDIC SURGICAL MANUFACTURERS ASSOCIATION**

Robert F. Games, President

1450 Brooks Road  
Memphis, Tennessee 38116  
(901) 396-2121 Fax: (301) 396-9929

Founded: 1955

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representation** ASTM, ISO, and ANSI

**Scope** Manufacturers and distributors of orthopedic devices and instrumentation used in reconstructive surgery done by orthopedic surgeons. Established to promote the patient's best interest by standardization of materials and sizing. Develops guidelines, fosters research, disseminates knowledge and information relating to scientific and practical problems, cooperates with professional health associations, interfaces with governmental agencies, and promotes high ethics in all phases of the surgical supply industry.

**Standardization Activities** Twenty-four member firms have employees active in development of medical device standards. Representatives serve as officers and members of various standards development organizations including ASTM, ISO, and ANSI. They participate in policy making decisions and in the content of test methods and standards pertaining to medical devices.

**Keywords** orthopedic surgery; medical devices;



## OUTDOOR POWER EQUIPMENT INSTITUTE, INC.

Dennis C. Dix, Executive Director

341 South Patrick Street  
Alexandria, Virginia 22314  
(703) 549-7600

Founded: 1952

Standards Staff: 3

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1956.  
70 members participate in standards activities.  
All OPEI sponsored standard are developed under ANSI's  
Canvass Procedures. All draft standards are available  
for review.

**Certification**

Through the services of an independent testing  
laboratory, OPEI conducts a 3rd party voluntary  
certification program for each of the OPEI sponsored  
voluntary standards approved and published by ANSI.

**Secretariats**

For each of the standards listed above and U.S.  
Technical Advisory Group to ISO/TC 23/SC 13, Powered  
Lawn and Garden Equipment.

**Scope**

A national trade association representing the domestic  
manufacturers of power lawn mowers, snow throwers,  
rotary tillers, commercial turf care equipment, garden  
tractors and related equipment and attachments.

**Standardization  
Activities**

Developed ANSI B71.1 Power Lawn Mowers; B71.3, Snow  
Throwers; B71.4, Commercial Turf Care Equipment; B71.5,  
Sound Test Method; B71.6, Shredder/Grinders; B71.7, Log  
Splitters; and B71.8, Tillers.

**Availability**

Published standards may be obtained through ANSI.  
Draft proposed standards may be obtained directly.

**Formerly**

Lawn Mower Institute, Inc.

**Keywords**

lawn equipment; lawn mowers; snow throwers; shredders;  
log splitters; rotary tillers; garden tractors;  
agriculture; acoustics; consumer products;

## PACKAGING MACHINERY MANUFACTURERS INSTITUTE

Claude S. Breeden, Jr., Executive Director

1343 L Street, NW  
Washington, DC 20005  
(202) 347-3838

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Scope</b>	A voluntary nonprofit association of U.S. companies manufacturing packaging machinery and packaging-related converting machinery. Seeks to solve problems of the packaging machinery industry and provides information and services to member companies, users of packaging and converting machinery, the government, and the general public.
<b>Standardization Activities</b>	Maintains Product Safety and Technical Information Committees. A member of the American National Standards Institute and supports its work with the International Organization for Standardization. Works with the Occupational Safety and Health Administration to publish a safety standard for the Card, Use, and Construction of Packaging Machinery.  Cooperates with associations such as the Fibre Box Association and the Adhesives Manufacturers Association of America in promoting recommended practices on the storage, maintenance, and application of adhesives used in conjunction with automatic packaging machinery.
<b>Keywords</b>	packaging; machinery;

#### PAINTING AND DECORATING CONTRACTORS OF AMERICA

	Vincent R. Sandusky, Executive Director  3913 Old Lee Highway, Suite 33B Fairfax, Virginia 22030 (703) 359-0826  Founded: 1884
<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Scope</b>	Represents painting and decorating contractors throughout the United States. Endeavors to maintain high standards of workmanship and safety in the painting, decorating, drywall, wallcovering, and coating industries. Committee activities involve labor, public, and government relations.
<b>Standardization Activities</b>	Works with the National Safety Council, OSHA, ANSI, and other organizations such as Associate Specialty Contractors, American Subcontractors Association to develop standards for wall covering, scaffolding and ladders, and general safety in the industry.

**Keywords** painting; wallcovering; safety;

**PAPERBOARD PACKAGING COUNCIL**

S. Edward Iciek, President

1101 Vermont Avenue, NW, Suite 411  
Washington, DC 20005  
(202) 289-4100

Founded: 1967

**Type of Organization** Trade Association  
Develops recommended practices

**Scope** A nonprofit national trade association representing companies in the production and conversion of paperboard into folding cartons and packages. Functions include marketing information and statistics, industrial relations, safety, technical and production, and government relations.

**Standardization Activities** Maintains a Technical and Production Committee, and special ad hoc groups established for the administration of standards activities.

Issues Guidelines and Standards for the Paperboard Packaging Industry, as a set of voluntary industry standards and specifications recommended for users and suppliers of folding paper cartons. Cooperated with the federal government in the development of Simplified Practice Recommendations for margarine cartons, rectangular ice cream cartons, and bacon carton. Involved in standards for printing nutritional labeling and Universal Product Code symbols on fluid milk cartons. Also cooperates with the government in reviewing and commenting on federal specifications.

**Availability** Distributed directly

**Formerly** Merger of several groups including the Folding Paper Box Association and The Institute for Better Packaging.

**Keywords** packaging; containers; cardboard;

**PERLITE INSTITUTE**

Paul J. Julius, Managing Director

600 South Federal Street  
Chicago, Illinois 60605  
(312) 922-2060

Telex: 297213 HAUR



Founded: 1949

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1949  
65 members participating in standards activities  
20 active standards  
None processed through ANSI  
Draft standards not available for review

**Standards  
Designation**

PI prefix

**Government  
Adoption**

Various government agencies have adopted ASTM standards on perlite including GSA, FHA, and VA.

**Scope**

A national and international nonprofit trade association which sponsors research leading to standardization of specifications and methods of testing perlite and perlite products. Collects data, initiates and correlates research, and develops specifications and test methods. Cooperation with technical and engineering societies, other trade associations, and government agencies interested in standards.

**Standardization  
Activities**

Activities are directed toward fulfilling ore producer, expander and customer requirements. Works closely with Underwriters Laboratories (UL), International Conference of Building Officials (ICBO), Southern Building Code Conference International (SBCCI), National Institute of Standards and Technology (NIST), Building Officials and Code Administrators (BOCA), and other agencies and industry organizations.

Publishes test methods and related standards containing test methods for evaluating quality of expanded perlite, and American Society for Testing and Materials specifications applicable to perlite. Publishes standards for perlite products used in building, industrial, and horticultural industries.

**Availability**

Distributed directly

**Keywords**

perlite; insulation; aggregate; abrasives; materials;

## PHARMACEUTICAL MANUFACTURERS ASSOCIATION

John Beary, M.D., Senior Vice President  
for Science and Technology

1100 15th Street, NW  
Washington, DC 20005  
(202) 835-3400

Founded: 1958

Telex: TWX-7108229494-PMA-WSH

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

Participates in standards developing activities of the food and Drug Administration, the United States Pharmacopoeia, the National Formulary, AAMI, ANSI, ASTM, NCCLS, European Committee for Clinical Laboratory Standards (ECCLS), and other public and private standards setting organizations.

**Scope**

A nonprofit scientific and professional organization representing firms that discover, develop, and produce prescription drugs, biological products, and diagnostic products. The Association's members produce most of the prescription drugs and a large part of the world's medical devices and diagnostic products. The Association's principal objectives are: (1) to encourage high standards in the research, development, production and marketing of drug products and diagnostic products; (2) to develop and disseminate information about the pharmaceutical industry to the public, all levels of government, the media, international organizations, and other groups; (3) to help keep industry abreast of government actions and public concerns; and (4) to work with member companies, other health related organizations, government and consumer entities, and the public to advance medical science and improve health-care services.

**Standardization  
Activities**

Participates in developing methods of analysis and standards for drugs and biologicals and methods of testing and standards for in vitro diagnostic products. Participation is either by staff (approximately one to two person years per year) or representatives of member companies drawn from PMA's Biological, Medical, Production, Engineering and Materials Management, Quality Control, and Research and Development Sections.

**Formerly**

American Drug Manufacturers Association and American Pharmaceutical Manufacturers Association (merged in 1958)

**Keywords**

drugs; pharmaceuticals; biologicals; medical devices;  
in vitro diagnostic products; health care;

## PHOTO CHEMICAL MACHINING INSTITUTE

Judith Ginsberg, Executive Director

4113 Barberry Drive  
Lafayette Hill, Pennsylvania 19444  
(215) 825-2506

Founded: 1968

### Type of Organization

Trade Association  
Standards Developer

### Standards Development

5 active standards

### Standards Designation

PCMI prefix

### Scope

Association of companies connected with industries producing metal parts by photo chemical machining, such as photo etching or companies that are suppliers to the industry such as metals, resists, etc.

### Standardization Activities

Develops standards applicable to photo chemical machining, including terms and definitions, dimensional tolerances, photoresists, and master artwork design.

### Availability

Distributed directly

### Keywords

photo chemical machining; manufacturing; materials;  
photo etching;

## PHOTOGRAPHIC SOCIETY OF AMERICA

Terry S. Stull, Operations Manager

3000 United Founders Boulevard, Suite 103  
Oklahoma City, Oklahoma 73112  
(405) 843-1437

Founded: 1933

Standards Staff: 10

### Type of Organization

User Association  
Standards Developer

### Standards Development

3 active technical standards  
8 active uniform practices

### Standards Designations

PSA Technical Standards  
PSA Uniform Practices



<b>Scope</b>	A nonprofit organization, international in scope. Promotes the arts and sciences of photography and furthers public education in the field. Interests of members include the uses of all types of photographic materials, their applications, and characteristics of their manufacturer.
<b>Standardization Activities</b>	Through its Technical Standards Committee, formulates technical standards. Affiliated with ANSI and has representatives on PH sectional committees on photography, as well as membership on the Photographic Technical Advisory Board. Representatives selected to represent its interests are chosen on the basis of their competence as users and their technical knowledge in the field. Establishes practices and requirements for judging and exhibition, safe handling, and other rules which contribute to the success of international photographic and camera events on a worldwide basis.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Associated Camera Clubs of America
<b>Keywords</b>	photography; camera; film;

#### **PIPE FABRICATION INSTITUTE**

Lois A. Moore, Executive Director

P.O. Box 173  
612 Lenore Avenue  
Springdale, Pennsylvania 15144  
(412) 274-4722

Founded: 1913

<b>Type of Organization</b>	Technical Society Standards Developer
<b>Scope</b>	Producers and designers of high pressure/high temperature piping systems for chemical plants, refineries, central power stations, and ships; concerned with technical and economic problems of the piping industry.
<b>Standardization Activities</b>	The standards and technical bulletins developed by the Engineering Committee cover the design, fabrication and erection of industrial and high pressure/high temperature piping to meet the requirements of power plants including nuclear, fossil, chemical, petroleum, and process piping. Through its members, the institute is officially represented on various code bodies and national engineering societies.

**Availability** Distributed directly and through IHS

**Keywords** pipe; pipe fabrication; industrial equipment;

**PIPE LINE CONTRACTORS ASSOCIATION**

Hailey A. Roberts, Managing Director

1700 Pacific Avenue, Suite 4100  
Dallas, Texas 75201-4675  
(214) 969-2700

Founded: 1947

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representatives** Four contractor members serve on the API-AGA 1104 Joint Welding Committee composed of industry representatives sponsored by the American Petroleum Institute and the American Gas Association.

**Scope** Association of contractors, equipment manufacturers, suppliers, and dealers of main-line pipe line. Represents the industry in labor negotiations. Promotes cooperation, efficiency, and safety in the main-line pipe line construction industry.

**Standardization Activities** Reviews and revises API Standard 1104, Standard for Welding Pipelines and Related Facilities.

**Keywords** petroleum pipe lines; construction;

**PLASTICS PIPE INSTITUTE**

**A division of The Society of the Plastics Industry, Inc.**

Stanley A. Mruk, Executive Director

Wayne Interchange Plaza II  
155 Route 46 West  
Wayne, New Jersey 07470  
(201) 812-9076

Founded: 1949

**Type of Organization** Trade Association  
Standards Developer

**Scope** A division of the Society of the Plastics Industry, Inc. (1275 K Street, NW, #400, Washington, DC, 20005). Dedicated to creating broader markets and market opportunities for plastics pipe and related products.

**Standardization  
Activities**

Maintains a Technical Committee which represents its members in Standards Writing and Code Writing organizations, including: ASTM F-17, Thermoplastic Piping Systems; ANSI B31.3, Chemical and Petroleum Piping Code; American Petroleum Institute, (oil and gas production piping); American Water Works Association, (water distribution piping); the National Sanitation Foundation (potable water quality).

Maintains a Hydrostatic Stress Board which writes standard policies and procedures for the forecasting of the long-term strength of plastic piping products and plastics piping thermoplastic materials. The Board also issues listings of Hydrostatic Design Stress recommendations for thermoplastics materials. These recommendations are referenced by many ASTM and other standards.

The Fuel Gas Division develops educational material used by gas companies and federal and state agencies for the training of operators and inspectors in proper and safe use of plastics gas piping; maintains close liaison with Department of Transportation and other government agencies which regulate the use of plastics piping for fuel gas; maintains close liaison with user group technical committees such as those of the American Gas Association and the American Petroleum Institute.

The Municipal and Industrial Division develops technical information, guides and manuals related to the use of plastics piping for municipal and industrial applications; it represents members before appropriate associations and organizations.

The Municipal and Industrial Division assists AWWA in development of appropriate standards and maintains liaison with key government agencies including EPA, HUD, etc.

**Availability**

Distributed directly

**Keywords**

plastic pipe; pipe; building; construction; gas distribution; water distribution; sewer and waste; industrial;

**PLUMBING AND DRAINAGE INSTITUTE**

Sol Baker, Executive Director

1106 W 77th Street, South Drive  
Indianapolis, Indiana 46260-3318  
(317) 251-6970



<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	9 active standards 7 processed through ANSI
<b>Standards Designations</b>	PDI-G, PDI-WH, and ANSI prefixes
<b>Government Adoption</b>	Used extensively by General Services Administration, Department of the Army, Coast Guard, and Department of Veterans Affairs.
<b>Certification</b>	Provides certified testing, rating, and installation procedures for grease interceptors and water hammer arresters. Testing equipment is maintained by independent laboratories. Furnishes certification seals which provide evidence that a product has met PDI performance standards.
<b>Scope</b>	An association of manufacturers of plumbing and drainage products. Promotes the advancement of plumbing engineering and the plumbing industry through public relations, research, and product standardization.
<b>Standardization Activities</b>	Maintains an Engineering Committee which engages in product certification and standards development in the areas of backwater valves, hydrants, floor and roof drains, plumbing fixture supports, and cleanouts. Cooperates with the American Society of Mechanical Engineers in the development of ANSI standards.
<b>Availability</b>	Distributed directly and through ASME
<b>Formerly</b>	Plumbing and Drainage Manufacturers Association (1954) Plumbing Manufacturers Association (1949)
<b>Keywords</b>	plumbing; drainage products; building; sanitation;

#### **POLYURETHANE MANUFACTURERS ASSOCIATION**

Richard Church, Executive Director

800 Roosevelt Road, Building C  
Suite 20  
Glen Ellyn, Illinois 60137  
(708) 858-2670

Founded: 1971

<b>Type of Organization</b>	Trade Association Standards Developer
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<b>Scope</b>	A private, nonprofit trade association of companies involved in the manufacture of solid polyurethane thermosetting elastomers and their related chemical and equipment suppliers. Promotes and maintains an organization for the mutual advancement and welfare of its members and the polyurethane industry.
<b>Standardization Activities</b>	Maintains a Standards Committee whose purpose is to select and standardize physical test procedures suitable for use with solid polyurethane elastomers, and to promote and disseminate these recommended practices throughout the industry. The two phase program consists of evaluation and selection of existing specifications suitable for use with solid polyurethane; and modification of new test procedures suitable for use as an educational tool. Specifications booklet being revised to include new standards for cast urethanes and specifications for RIM processing of urethanes.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	polyurethane; materials;

**PORCELAIN ENAMEL INSTITUTE**

	John C. Oliver, Executive Vice President
	1101 Connecticut Avenue NW, Suite 700 Washington, DC 20036
	Founded: 1930
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Designation</b>	PEI, ASTM, and ANSI prefixes
<b>Scope</b>	Manufacturers of major appliances and sanitaryware with porcelain enamelling facilities contract porcelain enamel companies and suppliers to the industry. Conducts market development programs, develops test methods for evaluation of porcelain enamel properties.
<b>Standardization Activities</b>	Works primarily through the voluntary standards development system utilizing the committee system of ASTM and ANSI. Also develops and maintains standards and specifications for specialized sectors of the porcelain enameling industry. In addition, serves as conduit of industry input into government-initiated standards.
<b>Availability</b>	Distributed directly

**Keywords**                   porcelain enamel; appliances; plumbing fixtures;  
                              cookware; materials;

**PORTABLE POWER EQUIPMENT MANUFACTURERS ASSOCIATION**

Donald E. Purcell, President

4720 Montgomery Lane  
Suite 812  
Bethesda, Maryland 20814  
(301) 652-0774

Founded: 1977

**Type of Organization**       Trade Association  
Works through other organizations to develop standards

**Certification**            No certification, qualification, or accreditation  
                              programs

**Secretariats**             ANSI B175 Committee  
U.S. TAG for ISO/TC 23/SC 17

**Scope**                    A nonprofit industry organization representing  
                              manufacturers of gasoline and electrically powered  
                              chain saws and their component parts.

**Standardization Activities**   PPEMA standardization programs are confined to partici-  
                                  pation in the development of standards under the  
                                  auspices of national and international voluntary  
                                  standards setting organizations, and in cooperation  
                                  with federal and state government agencies. These  
                                  programs include not only those sponsored or initiated  
                                  by PPEMA and its members but also those recommended by  
                                  government agencies. Participated in the development  
                                  of ANSI B175.1 Safety Requirements for Gasoline Powered  
                                  Chain Saws, 1979; and B175.1a, Supplement to Safety  
                                  Requirements for Gasoline Powered Chain Saws, 1983.

**Formerly**                 Chain Saw Manufacturers Association

**Keywords**                chain saws; saws; industrial equipment;

**PORTABLE SANITATION ASSOCIATION**

T.C. Anderson, Executive Director

7800 Metro Parkway, Suite 104  
Bloomington, Minnesota 55425  
(612) 854-8300

Founded: 1971

Standards Staff: 2



<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Developer</b>	Standards developer since 1976 3 active standards 35 members participating in standards activities Processed through ANSI Draft standards available for review
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Secretariats</b>	ANSI Z4.1, 24.3, 24.4
<b>Scope</b>	An international trade association that represents U.S. and foreign firms engaged in the leasing, renting, selling, and manufacturing of portable sanitation equipment, services and supplies for construction, recreation, emergency, and other uses. Devoted to the proper handling of human waste by the most modern, sanitary means, giving the greatest concern to the preservation of an unspoiled environment.
<b>Standardization Activities</b>	<p>Develops standards directed toward providing clean, sanitary restroom facilities for any gathering of people that do not have adequate permanent facilities close at hand. Assists manufacturers supplying the industry in market research and types and kinds of equipment which will fill these needs.</p> <p>Recommends standards to BOCA, SBCCI, OSHA, Council of American Building Officials (CABO), IAPMO, and various other state, county, and local health departments.</p> <p>Standards include minimum sanitation requirements for temporary labor camps to protect the health and safety</p>

of persons residing in the camps or in the vicinity of the camps. Also provides standards for adequate toilet facilities in places of employment.

**Availability** Distributed through ANSI

**Keywords** sanitation; toilets; public health;

**PORTLAND CEMENT ASSOCIATION**

John P. Gleason, Jr., President

5420 Old Orchard Road  
Skokie, Illinois 60077  
(312) 966-6200

Founded: 1916 Standards Staff: 11

**Type of Organization** Trade Association  
Works through other organizations to develop consensus standards

**Representation** Staff members are active in three model codes organizations and eight standards organizations, serving on seventy committees of ASTM, ANSI, ACI, ASCE, AASHTO, AREA, NFPA, ASHRAE, and others.

**Certification** Construction Technology Laboratories (CTL), a contract research facility wholly owned by PCA, provides compliance certifications to clients in the form of test and/or investigative reports on a project by project basis. CTL does not have a product labeling program, nor associated product qualification programs.

**Secretariats** Secretary for the American Concrete Institute's (ACI) 318 Committee which writes the Building Code Requirements for Reinforced Concrete referenced in building codes throughout the nation and used by all structural design professional.

**Scope** Represents the cement manufacturing industry. Serves the industry by extending and improving the uses of cement and concrete through research and development, market promotion, educational programs, and public affairs activities including representation with government. Cooperates with other concrete industry associations and national organizations representing business and industry. Provides a range of services to its members as well as to those private and public segments of the economy that serve the needs of the construction community in the United States and Canada.

**Standardization Activities** Develops new standards and updates existing standards to reflect the latest findings in scientific research

and test programs in the fields of cement and concrete technology, advanced engineering developments in all areas of concrete design and construction, and results of structural investigations and field experiences in the uses of concrete.

Does not write proprietary standards, but works with national standards-writing organizations to develop building codes, design standards, and material and test standards. The Research and Development/Construction Technology Laboratories group, and the Market Development group of PCA participate in this activity.

**Keywords** cement; concrete; test laboratories; fire protection;

### **POST-TENSIONING INSTITUTE**

Clifford Freyermuth, Executive Director/RETD

1717 West Northern Avenue, Suite 218  
Phoenix, Arizona 85021  
(602) 870-7540

Founded: 1976 Standards Staff: 1

**Type of Organization** Trade Association  
Works through other organizations to develop standards.

**Representation** ACI, AASHTO

**Scope** Membership consists of post-tensioning material fabricators, manufacturers of prestressed steel, concrete construction organizations, professional engineers, and architects. Promotes the use of post-tensioning materials through research

**Standardization Activities** Publishes "Guide Specifications for Post-Tensioning Materials" and "Recommendations for Grouping of Post-Tensioned Prestressed Concrete Members." Generally works through committees of the American Concrete Institute and American Association of State Highway Officials for standards development.

**Availability** PTI publications; ACI 318 Standard Building Code; AASHTO Specifications for Highway Bridges.

**Formerly** Post-Tensioning Division of the Prestressed Concrete Institute

**Keywords** construction; concrete; post-tensioning; prestressed concrete;



**POWDER ACTUATED TOOL MANUFACTURERS INSTITUTE, INC.**

James A. Borchers, Executive Director

1000 Fairgrounds Road, Suite 200  
St. Charles, Missouri 63301  
(314) 947-6610 Fax: (314) 946-2157

Founded: 1952

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	ANSI, ISO
<b>Certification</b>	Certification is through each individual manufacturer on their particular tool.
<b>Scope</b>	Furtheres the development of a powder actuated systems industry; encourages the safe use and effective application of powder actuated fastening systems; encourages research; cooperates with organizations engaged in similar work.
<b>Standardization Activities</b>	Participates on ANSI A10.3 Committee for Safety Requirements for Powder Actuated Fastening Systems. Serves on the ISO/TC 29 Subcommittee for; standard power loads used in powder actuated fastening systems.
<b>Keywords</b>	fastenings; tools; construction; safety;

**PRECAST/PRESTRESSED CONCRETE INSTITUTE**

Thomas B. Battles, President

175 West Jackson Boulevard  
Chicago, Illinois 60604  
(312) 786-0300 Fax: (312) 786-0353

Founded: 1954

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Certification</b>	The Plant Certification Program certifies a plant's capability to produce architectural precast and prestressed concrete of the highest quality. Recognized as a Quality Assurance Inspection Agency by the Council of American Building Officials (CABO).
<b>Scope</b>	A trade association representing the manufacturers of precast, prestressed concrete products used as structural and architectural elements in building,

bridges, and other structures. The professional membership helps develop working documents, such as, handbooks, design guides and manuals, guide specifications, and state-of-the-art reports to assist other professional use the product in a correct and economical manner.

**Standardization  
Activities**

Develops guide specification, design guides, and other documents in which standards of the ASTM, ACI, ANSI, AASHTO, AREA, etc., are cited to aid the engineer or architect in designing and specifying industry products.

**Availability**

Distributed directly

**Formerly**

Prestressed Concrete Institute

**Keywords**

concrete; prestressed concrete; construction; architectural precast concrete; glass fiber reinforced concrete; erection; buildings; bridges;

**PRESSURE SENSITIVE TAPE COUNCIL**

Glen R. Anderson, Executive Vice President

104 Wilmot Road, Suite 201  
Deerfield, Illinois 60015  
(708) 940-8800

Founded: 1953

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

An organization of American manufacturers of pressure sensitive tape (excluding surgical tape and label stock). Works with code and specification writing agencies.

**Standardization  
Activities**

Maintains research on test methods and standards of nomenclature, and on characteristics of products under all conditions of temperature and humidity. Publishes Test Methods booklet consisting of thirty-one testing procedures for pressure sensitive tapes. Each test has been developed, revised, and edited by the Technical and Safety Committee of the Council in cooperation with interested government agencies over an extended period of time.

Also publishes an annual tape products directory designed to inform industrial, commercial and retail consumers of the variety of pressure sensitive tapes and the applications in which they have been successfully used. The tapes are listed by company,

giving the tape identification number, description, principle uses, and manufacturer's values. The values given are in accordance with the PSTC Test Methods are for tensile strength, adhesion, thickness and elongation.

**Availability** Distributed directly

**Keywords** tape; packaging;

### PRINTING INDUSTRIES OF AMERICA

Ray Roper, CAE; President and CEO

1730 North Lynn Street  
Arlington, Virginia 22209  
(703) 841-8100

Founded: 1887

**Type of Organization** Trade Association  
Standards Developer

**Scope** Represents the graphic arts industry as a federation of national, state, and regional associations. Performs a primary role in industrial relation, management development, public relations, and government affairs for its industry.

**Standardization Activities** Maintains a continuing interest in the development of standards for promoting technical progress and production efficiencies. Activities include development of industry specifications for production and inventory control applications; computer specifications for inter-industry communication and electronic data interchange; publication of Virgin Vinyl and Related Standards for Loose Leaf Binders through its affiliate, Binding Industries of America; preparation of standards for printing plate sizes through its National Association of Lithographic Platemakers Section; participation with Magazine Publishers Association and others in the development of standard specifications for advertising reproduction material for magazine web offset printing; and others through its Graphic Communications Association and International Business Forms Industries affiliates.

**Availability** Distributed directly

**Formerly** United Typothetae of America (1945)  
Printing Industry of America, Inc. (1965)  
Absorbed: Lithographers and Printers National Association (1964)



**Keywords** printing; lithography; communications; paper;  
information; processing;

**PROJECT MANAGEMENT INSTITUTE**

Richard Colosi, Executive Director

P.O. Box 43  
Drexel Hill, Pennsylvania 19026

Founded: 1969

**Type of Organization** Professional Society  
Works through other organizations to develop standards

**Representation** ANSI

**Scope** A nonprofit organization devoted exclusively to the field of project management. Foster recognition of the need for professionalism in project management; provides a forum for free exchange for project management problems, solutions, and applications; coordinates industrial and academic research efforts; develops common terminology and techniques to improve communications; provides interface between users and suppliers of hardware and software systems; and provides guidelines for instruction and career development in the field of project management.

**Standardization Activities** Functions are performed through the Professional Liaison Committee which coordinates with the Technology, Research Policy and Education Committees. Participates in national activities through the American National Standards Committee XK36.3 and internationally, through liaison with an appointed observer to Internet. Does not deal with the federal government directly. Several members are federal employees in agencies involved with project management.

**Keywords** management; business; information processing;

**RACK MANUFACTURERS INSTITUTE**

John B. Nofsinger, Managing Director

The Material HANDling Institute  
8720 Red Oak Boulevard, Suite 201  
Charlotte, NC 28217  
(704) 522-8644

Fax: (704) 522-7826

Founded: 1958

Standards Staff: 1

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1958. 33 member companies participating in standards activities. 4 active standards. Two being processed through ANSI.
<b>Scope</b>	Consists of firms engaged in the design and manufacture for sale of industrial steel storage racks. Active in standardization and fire protection of high rack storage areas.
<b>Standardization Activities</b>	Publishes standards and nomenclature including - Specification for the Design, Testing and Utilization of Industrial Steel Storage Racks; Minimum Design Standards for Pallet Stacking Framer; Manual of Safety Practices; and Stacker Rack Nomenclature.
<b>Availability</b>	Distributed directly and through the Material Handling Institute, Inc.
<b>Keywords</b>	storage racks; material handling; stacker racks; industrial equipment;

#### RADIO TECHNICAL COMMISSION FOR AERONAUTICS

David S. Watrous, Executive Director

One McPherson Square  
1425 K Street NW, Suite 500  
Washington, DC 20005  
(202) 682-0266

Founded: 1935

Standards Staff: 7

<b>Type of Organization</b>	Voluntary Consensus Standards Developer
<b>Standards Development</b>	Standards developer since 1935. Approximately 2,000 participants in standards development. 59 active standards. One document accepted as the international standard for airborne equipment environmental testing.
<b>Standards Designation</b>	Minimum Operational Performance Standards (RTCA/DO-XXX).
<b>Government Adoption</b>	The Federal Aviation Administration has adopted the majority of the airborne equipment standards as Technical Standard Orders (TSO).

<b>Certification</b>	None
<b>Scope</b>	<p>An association of aeronautical organizations of the United States from both government and industry representing the commercial and private airspace users, aircraft manufacturers, and airborne and ground electronic system manufacturers.</p> <p>Active in the field of aviation electronics and telecommunications, and other closely allied fields. Areas of interest include: determination of common operational requirements; state-of-art developments and applications; Minimum Operational Performance Standards for airborne systems; environmental test procedures for airborne equipment; operational and technical characteristics of systems; aeronautical frequency spectrum utilization; and other problems associated with air traffic control, navigation, communications and efficient use of airports and airspace.</p>
<b>Standardization Activities</b>	Seeks solutions to problems involving the application of electronics and telecommunications to aeronautical operations. These solutions are frequently in the nature of recommended technical standards and common operational requirements which are acceptable to government, industry, and users. Cooperates with European Organizations for Civil Aviation Electronics (EUROCAE).
<b>Availability</b>	Sold directly, and distributed through IHS, NSA, and Avionics Magazine.
<b>Keywords</b>	avionics; aeronautical; telecommunications; MOPS; electronics.

#### RADIO TECHNICAL COMMISSION FOR MARITIME SERVICES

W.T. Adams, President

P.O. Box 19087  
Washington, DC 20036  
(202) 639-4006

Founded: 1947

<b>Type of Organization</b>	Technical Society Standards Developer
<b>Standards Development</b>	Standards cover all aspects of maritime telecommunications. None Processed through ANSI Draft standards not available for review by non-RCTM members



<b>Standards Designations</b>	RTCM Recommendations, usually with designator Special Committee (SC) Report Number
<b>Government Adoption</b>	RTCM Recommendations, where appropriate, are adopted by cognizant government agencies such as FCC and U.S. Coast Guard.
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Scope</b>	160 member organizations active in all aspects of maritime telecommunications including any transmission, emission, or reception of signs, signals, writing, images, and sounds, or intelligence of any nature by wire, radio, optical, and other electromagnetic and visual systems.
<b>Standardization Activities</b>	Standardization activities are primarily focused on user-defined requirements for maritime telecommunications. Special Committees formed to address standards areas are open to participation by all RTCM members and government agencies. Liaison is maintained with appropriate national and international organizations working in similar areas.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Radio Technical Commission for Marine Services
<b>Keywords</b>	maritime; shipping; boating; radio; electronics; telecommunications; radiodetermination; radionavigation; radiolocation; radar; transportation; communications; electronics;

#### **RADIOLOGICAL SOCIETY OF NORTH AMERICA**

Delmar J. Stauffer, Executive Director

1415 West 22nd Street  
Oak Brook, Illinois 60521  
(312) 571-2670

Founded: 1915

<b>Type of Organization</b>	Professional Society Works through other organizations to develop standards
<b>Representation</b>	A member of the Medical Devices Standards Board, ANSI, and the National Council of Radiation Protection and Measurements.

<b>Scope</b>	A professional society which promotes the study and practical application of radiology, radium, electricity, and other branches of physics related to medical science.
<b>Standardization Activities</b>	Supports activities of the organizations listed above and reports to its members annually on standards activities.
<b>Keywords</b>	radiology; radiation; medical devices

#### RAILWAY TIE ASSOCIATION

Raymond R. Wingard, Executive Director  
 910 Sheraton Drive, Suite 430  
 Mars, Pennsylvania 16046  
 (412) 772-1790

Founded: 1919

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	3 standards
<b>Standards Designation</b>	Specifications for Cross Ties and Switch Ties Wood Tie Fastener Performance Specification Selectie economic analysis model for alternative ties in track
<b>Scope</b>	Membership consists of those interested in the manufacture, procurement and chemical preservation of wood railroad crossties. Cooperates with government agencies in conservation of forest products. Collects statistics, promotes standardization of cross ties, and provides models for economic analysis.
<b>Standardization Activities</b>	Administered by an Executive Committee, a Committee on Research and Development, and other active committees. Active in international activities through its Canadian membership. Cooperates with government agencies on cross tie specifications. Works with the Association of American Railroads Research Center and several railroads in Research & Development and in-track testing of ties, including tests at Pueblo, Colorado Test Track Center.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	National Association of Railroad Tie Producers
<b>Keywords</b>	railway ties; cross ties; transportation;

## RECORDING INDUSTRY ASSOCIATION OF AMERICA

Jason S. Berman, President

1020 19th Street, NW, Suite 200  
Washington, DC 20036  
(202) 775-0101

Founded: 1952

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

4 active standards

**Certification**

No certification, qualification, or accreditation programs

**Scope**

A nonprofit trade association for the U.S. sound and video recording industry. Promotes mutual interests of recording companies and the betterment of the industry. Initiates and sponsors programs and activities geared to the needs and problems of the recording industry.

**Standardization  
Activities**

The Engineering Committee provides an ongoing review to maintain high technical standards for phonograph records, prerecorded audio tapes, videodiscs and videocassettes, and digital audio discs to insure uniformity and compatibility. Cooperates with ANSI, IEC, and EIA, and has drafted its own dimensional standards to facilitate equipment design and assure interchangeability.

**Availability**

Distributed directly

**Formerly**

Record Industry Association of America (1952)

**Keywords**

phonograph records; cassettes; videodiscs;  
videocassettes; recording; communications;

## RECREATION VEHICLE INDUSTRY ASSOCIATION

Bruce A. Hopkins, Vice President, Standards

1896 Preston White Drive  
Reston, Virginia 22090  
(703) 620-6003

Founded: 1963

Standards Staff: 7

**Type of  
Organization**

Trade Association  
Standards Developer



<b>Standards Development</b>	3 active standards
<b>Secretariats</b>	ANSI Committee A119, Recreation Vehicles and Recreation Vehicle Parks; ANSI EGS-1, Standard for Engine Generator Sets for Recreation Vehicles; Standard for Park Trailers
<b>Scope</b>	Manufacturers and suppliers of recreational vehicles. Provides the industry a base from which to communicate with legislators, government agencies, the media, and the general public.
<b>Standardization Activities</b>	Coordinates state activities, inspection services, and standards development. Establishes minimum requirements for installation of plumbing, electrical, and other safety related systems in recreation vehicles, park trailers, and for design and construction features for recreation vehicle parks and campgrounds. Monitors state agencies; does compliance inspections on member manufacturers; provides educational programs on compliance standards. Monitors proposed standards and keeps industry informed of changes. Requires that manufacturers comply with existing standards as a condition for membership. Representation on standards committees of ANSI and NFPA.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	American Institute of Travel Trailer and Camper Manufacturers (1968) Recreation Vehicle Institute (1974)
<b>Keywords</b>	recreation; transportation; recreational vehicles;

#### **REDWOOD INSPECTION SERVICE**

**A division of California Redwood Association**

Keith Lanning, General Manager

405 Enfrente Drive, Suite 200  
Novato,, California 94949  
(415) 382-0662

Founded: 1961

Standards Staff: 5

Merged into the CRA in 1986

**Type of Organization**

Trade Association  
Standards Developer

**Standards Development**

Developed standard for California Redwood Lumber through authorization of the American Lumber Standards Committee and PS-20-70.

<b>Standards Designation</b>	Standard Specifications for Grades of California Redwood Lumber
<b>Certification</b>	Adopts official grademarks signifying that products so marked have been graded in accordance with standard specifications of the Redwood Inspection Service. Grademarks are applied by qualified graders of member companies or by cooperating grading agencies operating within requirements established by the American Lumber Standards Committee.
<b>Scope</b>	A non-profit organization for the primary purpose of establishing uniform grades of redwood lumber, consultation with government agencies concerning grades and grading of redwood and other species of lumber. Promulgates rules for the redwood lumber industry. Membership includes 85 percent of the redwood producers. Rules are developed by a Quality Standards Committee and approved by Board of Directors.
<b>Standardization Activities</b>	Adopts standard specifications for grades, sizes, patterns, and grademarks for redwood lumber; planing mill products; special purpose uses for redwood lumber including tank stock, stadium seat stock, foundation sills, structural grades, structural glue laminating grades, and miscellaneous products including railroad ties, cooling tower material, shingles and shakes. Cooperates with other lumber organizations and with the American Lumber Standards Committee in keeping current the American Lumber Standards set forth in the US Department of Commerce Product Standard 20-70. Grading rules for redwood lumber are in accordance with these standards and approved by ALSC.
<b>Availability</b>	Sold directly
<b>Keywords</b>	wood products; shingles; grading rules; inspection; lumber; building; railway ties;

#### REFRATORIES INSTITUTE

Charles G. Marvin, Vice President

301 Fifth Avenue, Suite 326  
Pittsburgh, Pennsylvania 15222  
(412) 281-6787

Founded: 1951

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards.
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<b>Representation</b>	Active in ASTM Committee C-8 on Refractories and ISO Committee TC-33 on Refractories.
<b>Scope</b>	A national trade association representing a large segment of the refractories industry which is comprised of over 130 companies, operating more than 250 establishments and employing more than 20,000 hourly workers throughout 37 states. Primary purposes are to promote demand for the industry's products, to conduct and stimulate research aimed at improving products and processes, to aid in the development of new product applications, to keep its members abreast of new developments and to work cooperatively with government agencies involved with the industry.
<b>Standardization Activities</b>	Cooperates with national technical associations test methods for refractories. Informs member companies of U.S. and international standardization activities regarding refractories.
<b>Keywords</b>	refractories; fireclay; firebrick; insulating refractories; dolomite; materials;

#### RESILIENT FLOOR COVERING INSTITUTE

	Walter D. Anderson, Managing Director
	966 Hungerford Drive, Suite 128 Rockville, Maryland 20850 (301) 340-8580 Fax: (301) 340-7283
	Founded: 1929
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1929
<b>Standards Designation</b>	RFCI prefix
<b>Scope</b>	Represents resilient floor covering producers of tile and sheet vinyl flooring products in the United States.
<b>Standardization Activities</b>	Developed standards for tile and sheet vinyl products, including adhesives and installation and maintenance instructions. Works with the federal government in developing standards for resilient tile and sheet vinyl for use by the government.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	floor covering; vinyl tile; building



## RESISTANCE WELDER MANUFACTURERS ASSOCIATION

Meg Morgan, Executive Director

1900 Arch Street  
Philadelphia, Pennsylvania 19103  
(215) 564-3484 Fax: (215) 564-2175

Founded: 1931

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

A trade association representing North American companies engaged in manufacturing resistance welding machines, electrodes and components (controls, transformers, etc.) Engages in a varied program of activities embracing the development of standard specifications for numerous types of resistance welding equipment, research and development work and cooperation with other associations and industries with mutual or parallel interests and problems.

**Standardization  
Activities**

Developed specifications for resistance welding machines: spot, press, portable, seam, upset butt, flashbutt, etc.; electrode alloy materials; nomenclature, definitions, etc. Developed standard classification for resistance welding electrode alloys, stating minimum permissible physical and electrical qualities. Identified and classified trade names and numbers. Also developed standards for spot welding electrode holders welding electrodes (spot and seam), together with recommended electrode alloys for spot welding of similar and dissimilar metal combinations. Developed standard nomenclature and definitions on resistance welding equipment and techniques. Cooperates with the National Electric Manufacturers Association and the American Welding Society to develop standards.

**Availability**

Distributed directly

**Keywords**

resistance welding; manufacturing; spot welding;  
welding electrodes;

## RICE MILLERS ASSOCIATION

David Graves, President

1235 Jefferson Davis Highway, Suite 302  
Arlington, Virginia 22202  
(703) 920-1281 Fax: (703) 521-5814

Founded: 1899

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Scope</b>	A national, nonprofit association of independent rice milling companies and farmer-owned cooperative rice milling firms. Collects and compiles statistics, acts as a liaison between industry and government, arbitrates disputes, assists in establishment of standards, and generally promotes the rice milling industry.
<b>Standardization Activities</b>	Establishes standard contract terms and conditions for trade in rice and rice products. Prescribes standard forms of sales contracts for use in the United States, Puerto Rico, and export markets. Adapts and uses grade and quality standards of the U.S. Department of Agriculture.
<b>Keywords</b>	rice; grain; rice milling; agriculture; food;

#### ROBOTIC INDUSTRIES ASSOCIATION

James M. Prange, Director of Standards Development

900 Victors Way

P.O. Box 3724

Ann Arbor, Michigan 48106

(313) 994-6088

Fax: (313) 994-3338

Founded: 1974

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1982 Over 250 representatives participate in the seven R15 Standards Subcommittees. Most of RIA standards are processed through ANSI Subcommittees. Draft Standards available for review.
<b>Standards Designation</b>	RIA/R15.x
<b>Government Adoption</b>	The Occupational Safety and Health Administration references ANSI/RIA R15.06-1986 in its <u>Guidelines for Robotic Safety</u> .
<b>Secretariats</b>	Domestic: R15.01, R15.02, R15.03, R15.04, R15.05, R15.05WG1, R15.06, and R15.07 International: USTAG/ISO/TC 184/SC 2

<b>Scope</b>	The Robotic Industries Association provides leadership for the responsible advancement of the entire robotics industry in North America. Some of the Association's objectives include providing mutual communications and organization of groups within the robotic industry to initiate and pursue programs of common technical, marketing, or management interest; and developing robotic industry and robotic system standards which will enhance the use and application of automation equipment.
<b>Standardization Activities</b>	Standardization in the field of robotics, including activities within the following technical committees: Electrical Interface (R15.01), Human Interface (R15.02), Mechanical Interface (R15.03), Communication/Information (R15.04), Performance (R15.05), Reliability (R15.05-WG1), Safety (R15.06), and Simulation/Offline Programming (R15.07).
<b>Availability</b>	Draft standards available from RIA. ANSI-approved standards available from RIA and ANSI.
<b>Keywords</b>	robotics; robot systems; flexible manufacturing system; automation;

#### **RUBBER MANUFACTURERS ASSOCIATION**

	Steven Butcher, Secretary, Hose Technical Committee
	1400 K Street, NW Washington, DC 20005 (202) 682-4818
	Telex: 892666 Rubber Club Washington
	Founded: 1915
	Standards Staff: 5
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	200 member companies participate in standards development. Some standards are submitted to ANSI canvassing procedures. Draft standards are available for review by interested organizations.
<b>Standards Designation</b>	RMA; Joint RMA/MPTA/RAC (Mechanical Power Transmission Association/Rubber Association of Canada); Joint RMA/TFI (The Fertilizer Institute); Joint RMA/CGA (Compressed Gas Association).
<b>Government Adoption</b>	Some RMA documents are cited by some federal regulatory agencies, e.g., OSHA.



<b>Certification</b>	No certification, qualification or accreditation programs.
<b>Secretariats</b>	ISO/TC 45/SC 1 - Hoses - ISO/TC 45/SC 1/Working Group 1 - Industrial, Chemical, and Petrochemical Hoses - ISO/TC 41/SC 4 - Synchronous Belt Drives - ASTM Subcommittee D11.31 - Rubber Hose - International Rubber Quality and Packing Conference -
<b>Scope</b>	A national trade association of the rubber industry, representing over 200 member companies which manufacture finished rubber products. Operates on state, national and international levels and represents its members before legislative and regulatory bodies, as well as in other standards-writing forums.
<b>Standardization Activities</b>	Committees review and make recommendations on governmental standardization proposals and participate in the standard programs of ANSI, SAE, ASTM, DOT, OSHA, DOD, DOC and others. Develops standards and specifications for hose, conveyor belting, power transmission belting, sealing products, molded and extruded products, protective linings, roll coverings, and coated materials.
<b>Availability</b>	Distributed directly, through member companies, and through ANSI.
<b>Formerly</b>	New England Rubber Club (1909) Rubber Club of America (1917) Rubber Association of America (1929)
<b>Keywords</b>	rubber; elastomeric; hose; conveyors; transmission belts; industrial equipment; seals; coated materials; materials;

#### **SAFETY GLAZING CERTIFICATION COUNCIL**

Robert L. Brown, President

ETL Testing Lab Inc.  
Industrial Park 3933 Route 11  
P.O. Box 2040  
Cortland, New York 13045-0950

Founded: 1971

<b>Type of Organization</b>	Certification Organization
<b>Certification</b>	Products complying with established safety characteristics can be marked with a label signifying

certification by the SGCC. A number is also assigned to the safety glazing material.

<b>Scope</b>	A not-for-profit organization of manufacturers of safety glazing products, building code administrators, and others. Established and maintained a program to administer periodic testing related to the Consumer Product Safety Commission standard for safety glazing in buildings (16 CFR 1201), and as outlined in ANSI Z97.1-1984. Also approves and registers the manufacturers label with the ability to withdraw certification if deemed appropriate.
<b>Standardization Activities</b>	Administers a safety glazing certification program which is operated in compliance with ANSI Practice for Certification Procedures and the Code of Federal Regulations. Uses independent testing laboratories to sample and evaluate products. Publishes Certified Products Directory which lists all certified products, label requirements, and procedural guidelines for manufacturers seeking certification.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	glazing; tempered glass; glass; materials; building;

#### **SALT INSTITUTE**

Bruce M. Bertram, Technical Director

700 North Fairfax Street, Suite 600  
Alexandria, Virginia 22314  
(703) 549-4648

Founded: 1914

Standards Staff: 1

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Scope</b>	A nonprofit association supported by the world's major salt producers. Its 8 U.S. members produce 95% of the dry salt produced in the United States. Activities include information services, government relations, member services, and field services.
<b>Standardization Activities</b>	Serves as the national and the international standards representative for the salt industry. Cooperates with the National Academy of Sciences and the Department of Labor, General Services Administration, and the U.S. Army Natick Laboratories. Also works with the American National Standards Institute, the American Society for Testing and Materials, the American Water Works Association, the United States Pharmacopeia, the American Association of State Highway and

Transportation Officials, and the American Feed Manufacturers Association.

**Formerly** The Salt Producers Association (1963)  
**Keywords** salt; sodium chloride; materials;

#### SCAFFOLDING, SHORING AND FORMING INSTITUTE

John H. Addington, Managing Director  
1230 Keith Building  
Cleveland, Ohio 44115-2180  
(216) 241-7333

Founded: 1960

**Type of Organization** Manufacturing Trade Association  
Professional Society Standards Developer

**Standards Development** 13 standards prepared  
None processed through ANSI

**Scope** Fourteen manufacturers of scaffolding, suspended powered scaffolding, shoring and forming. Establishes recommended criteria and inspection procedures for the proper and safe use of scaffolding to support formwork in concrete construction.

**Standardization Activities** Provides recommended safety requirements for shoring concrete formwork and scaffolding including flying deck forms, rolling shore brackets, horizontal shoring beams, single post shores, steel frame shoring. Also provides recommended scaffolding erection procedure.

**Availability** Sold directly

**Formerly** Steel Scaffolding and Shoring Institute

**Keywords** scaffolding; shoring; suspended powered scaffolding; forming; construction; safety;

#### SCALE MANUFACTURERS ASSOCIATION

Raymond J. Lloyd, Executive Director

932 Hungerford Drive #36  
Rockville, Maryland 20850  
(301) 738-2448 Fax: (301) 738-0076

Founded: 1945

**Type of Organization** Trade Association  
Standards Developer



<b>Standards Development</b>	Standards developer since 1945. 34 members in association. 5 active standards. 1 processed through ANSI.
<b>Standards Designation</b>	SM prefix
<b>Certification</b>	No certification, qualification or accreditation programs.
<b>Scope</b>	A national trade association that represents U.S. manufacturers of scales, balances and major weighing elements.
<b>Standardization Activities</b>	Directed toward fulfilling user-defined requirements of the industry and its customers through participation in both national and international standardization efforts.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	scale; weighing machines; instruments;

#### SCREEN MANUFACTURERS ASSOCIATION

June G. Fitzgerald, Executive Secretary

655 Irving Park at Lake Shore Drive  
Suite 201 Park Place  
Chicago, Illinois 60613  
(312) 525-2644

Founded: 1955

Standards Staff: 1

**Type of Organization**

Trade Association  
Standards Developer

**Standards Development**

Six active standards

<b>Standards Designation</b>	SMT, SMA, and ANSI prefixes
<b>Scope</b>	Manufacturers of metal window, patio, door, and porch screens; sponsors research programs; compiles statistics.
<b>Standardization Activities</b>	Develops and maintains testing procedures and specifications for metal and solar screens.
<b>Availability</b>	Sold directly
<b>Keywords</b>	screens; building;

#### SEALED INSULATING GLASS MANUFACTURERS ASSOCIATION

	J. Dollart Carey, Executive Vice President
	111 East Wacker Drive, Suite 600 Chicago, Illinois (312) 644-6610
	Founded: 1963
<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Works with ASTM
<b>Scope</b>	Manufacturers of insulation glass and suppliers to the industry. Compiles statistics, provides government liaison, publishes information on test methods.
<b>Keywords</b>	insulating; glass; building;

#### SEMICONDUCTOR EQUIPMENT AND MATERIALS INTERNATIONAL

	William A. Brown, Manager, International Standards
	805 East Middlefield Road Mountain View, California 94043-2295 (415) 964-5111 Fax: (415) 967-5375 Easylink: 62819945
	Founded: 1970 Standards Staff: 7
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1974 230 active standards Draft Standards available for review None processed through ANSI

<b>Standards Designations</b>	C Chemicals and Gases
	E Equipment Automation/Hardware, Equipment Automation/Software
	G Packaging
	M Materials
	P Micropatterning
	S Facilities and Safety

**Scope** With 1,350 corporate members, SEMI serves the international semiconductor community by fostering the advancement of knowledge about equipment, materials, and services distinct to the production and use of semiconductor devices. Founded in 1970 to develop the SEMICON trade shows, SEMI activities have expanded to include technical symposiums, market research seminars, trade issues, and standards development.

**Standardization Activities** The SEMI Standards Program encompasses virtually every facet of semiconductor manufacturing and has established specifications and test methods in six critical areas: chemicals, equipment (including automation and communications), materials, packaging, micropatterning and safety. Emphasis in standards development is placed upon: communication between producers and users; interchangeability of products and components; technology transfer; safety; and efficiencies in design, production, and inventory.

Nearly 3,000 engineers, scientists, and technicians volunteer to serve on standards setting technical committees in Japan, Europe, and the United States. Many committees have established a liaison with one or more of the following standards organizations: ASTM, ANSI, CGA, JEDEC, IEEE, and NIST. Membership in SEMI standards programs is open to all interested companies.

A balloting procedure designed to allow maximum fair participation precedes the approval of any specification. Procedural reviews of all standards ensure that the formal balloting process has been properly performed.

The SEMI Standards, a six-volume publication, is revised annually for publication in April.

**Availability** Distributed directly and through IHS

**Keywords** semiconductors; high technology; manufacturing; chemicals; equipment; materials; packages; photomasks; automation; communications; integrated circuits; gases; micropatterning;



**SFI FOUNDATION INC.**

Arnold S. Kuhns, President

15708 Pomerado Road, Suite N208  
Poway, California 92064  
(619) 451-8868

Founded: 1978

**Type of  
Organization**

Standards Developer

**Certification**

Manufacturer self-certification program for various products used in automotive aftermarket.

**Scope**

An international standards setting organization involved with companies worldwide in the areas of motorsports, road wheels and consumer products.

**Standardization  
Activities**

Activities are directed towards fulfilling user defined requirements of the motorsports, road wheels and consumer products industries. Standards are minimum performance in nature and compliance with the specifications enables the user to self certify product.

**Formerly**

SEMA Foundation, Inc.

**Keywords**

Motorsports; road wheels; consumer products;

**SHEET METAL, AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION**

W. Davis Bevirt, Director of Technical Research

8224 Old Courthouse Road  
Vienna, Virginia 22180  
(703) 790-9890

Founded: 1944

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

16 active standards  
None processed through ANSI

**Scope**

A nonprofit trade association dedicated to the advancements of the sheet metal, heating, ventilating, air-conditioning, industrial sheet metal, and roofing industries. Activities and services are carried out in four department: technical, labor relation, legislative affairs, and business management.

**Standardization  
Activities**

The Technical Services Department administers standards activities. Although some standards are developed for labor relations and safety practices, the majority fall into two categories: duct construction and architectural sheet metal.

Publishes Accepted Industry Practice for Industrial Duct Construction, Architectural Sheet Metal Manual, Ducted Electric Heat Guide for Air Handling Systems, Energy Conservation Guidelines, Energy Recovery Equipment and Systems Air-to-Air, Fibrous Glass Duct Construction Standards, Fire, Smoke and Radiation Damper Guide for HVAC Systems, Guide for Steel Stack Design and Construction, Guidelines for Roof Mounted Outdoor Air-Conditioner Installation, HVAC Air Duct Leakage Test Manual, HVAC Duct Construction Standards-Metal and Flexible, HVAC Systems-Duct Design, HVAC Systems-Duct Design Tables and Charts, HVAC Systems-Applications, HVAC Systems-Testing, Adjusting and Balancing, Indoor Air Quality Manual, Installation Standards for Residential Heating and Air Conditioning Systems, Management Change Order Manual, Managers Guide for Welding, Rectangular Industrial Duct Construction Standards, Retrofit of Building Energy Systems and Processes, Round Industrial Duct Construction Standards, Thermoplastic Duct (PVC) Construction Manual, Welding Guidelines/Troubleshooting Chart, Standards Practice in Sheet Metal Work, Environmental Systems Technology, Sound and Vibration in Environmental Systems, Procedural Standards for Measuring Sound and Vibration, Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems, Procedural Standards for Certified Testing of Cleanrooms, and Testing, Adjusting, Balancing Manual for Technicians.

**Availability**

Distributed directly

**Formerly**

Sheet Metal Contractors National Association (1956)

**Keywords**

air-conditioning; air handling; indoor air quality;

**SILVER INSTITUTE**

John H. Lutley, Executive Director

1026 16th Street, NW, Suite 101  
Washington, DC 20036  
(202) 331-1227

Telex: 904233

Founded: 1971

Standards Staff: 1

**Type of  
Organization**

Trade Association  
Standards Developer

<b>Standards Designations</b>	Unified Number Designations
<b>Government Adoption</b>	Government use, not adoption
<b>Certification</b>	No certification programs, supplier self certification
<b>Secretariats</b>	ASTM Committee B-2, Section on Unified Numbering System Designations for Precious Metals.
<b>Scope</b>	An international trade association of miners, refiners, fabricators, and bullion dealers. Extends the market for the use of silver through publications, seminars, joint symposiums with technical organizations, and trade shows.
<b>Standardization Activities</b>	Develops standard alloy designations for silver alloys for Unified Numbering System for Metals and Alloys issued by the Society of Automotive Engineers (SAE) and the American Society for Testing and Materials.
<b>Availability</b>	Distributed directly and through ASTM and SAE
<b>Keywords</b>	silver; precious metals; bullion; alloys; materials;

#### **SMALL MOTOR MANUFACTURING ASSOCIATION**

Elizabeth Bevington-Chambers, Executive Director

P.O. Box 378  
 Sherborn, Massachusetts 01770  
 (508) 655-4409

Founded: 1975

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1975 120 member companies participate in standards activities 10 active standards plus 1 under development
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Scope</b>	An international industry organization representing original equipment manufacturers, users, suppliers, and other interested parties involved in the manufacture of fractional and subfractional horsepower motors.



<b>Standardization Activities</b>	The Technical and Standards Committee works with Underwriters Laboratories, Canadian Standards Association, government agencies and other associations in developing standards. Topical areas include tachometers, general motor terminology, permanent magnet motors, permanent split capacitor motors, universal motors, shaded pole motors, and technical reference information for brushes, contacts, and magnets. Promotes manufacturer/user interface.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	electrical equipment; tachometers; industrial equipment; motors; magnets;

#### **SNELL MEMORIAL FOUNDATION**

	Suzanne A. Snively, M.D., President
	P.O. Box 493 St. James, New York 11780 (516) 862-6440 Fax: (516) 862-6545
	Founded: 1957
<b>Type of Organization</b>	Nonprofit research corporation Standards developer
<b>Certification</b>	Approves manufacturers products meeting its standards and other criteria for certification under contractual agreements, providing, among other matter, ongoing random sample testing of helmets taken from dealer shelves.
<b>Secretariats</b>	ANSI Z90, Vehicular Head Protection
<b>Scope</b>	A nonprofit corporation whose primary purpose is to conduct research in brain trauma and head protective devices and to develop and utilize advanced techniques for related critical measurements. Establishes upper level standards for protective devices, maintains an ongoing research program in head injury and a program in education related to vehicular safety. Linked with European counterpart, Snell Memorial Foundation (UK).
<b>Standardization Activities</b>	Promulgated in 1959 the first standard for road user crash helmets in the United States. Its helmet Standards are generally recognized as carrying the most stringent safety performance requirements for road user protective headgear in the world today. Has also established standards of safety performance criteria for skier, bicyclists, and equestrian protective helmets. Standards are not minimum standards but, rather, represent the upper levels of protective

criteria which the manufacturing are is capable of meeting, and as that capability increases, the level of the standard is raised. Through its certification program, the Foundation is able to keep in the forefront of improvements in the state of the manufacturing art, both as to methodology and materials, and to obtain data useful in its research program and its development of more sophisticated test procedures.

**Availability** Distributed directly

**Keywords** helmets; head protection; vehicular safety; brain trauma; skiers; bicyclists; motorcyclists; equestrians; safety; social welfare; sports;

#### SNOWMOBILE SAFETY AND CERTIFICATION COMMITTEE

R.W. Muth, Chairman

3975 University Drive, Suite 310  
Fairfax, Virginia 22030  
(703) 273-9606

Founded: 1974 Standards Staff: 1

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1974  
3 manufacturers participate in standards activities  
29 active standards  
Standards processed by SAE  
Draft standards available for review

**Standards Designations** SSSC/10, Safety Standards for Snowmobile Product Certification

**Government Adoption** All or portions of the standard accepted by Connecticut, Maine, Maryland, Massachusetts, Michigan, Minnesota, Montana, New Hampshire, Oregon, Pennsylvania, Rhode Island, Vermont, Wisconsin and Canada.

**Certification** Certification program administered since 1975. Each conforming machine bears a Certification Label which signifies that the United States Testing Company, has independently confirmed that the vehicle has been manufactured in compliance with SSSC safety standards. In the area of operator education, provincial and state safety training programs are certified by the SSSC as being in compliance with uniform standards. To date, the instructional programs of sixteen states and provinces have been certified.

<b>Scope</b>	A nonprofit membership association organized to promote, foster, and encourage by any and all lawful means safe, enjoyable opportunities for snowmobiling through operator safety training and education programs; safe trail, use area and facility development; development of voluntary snowmobile machine safety standards and the independent certification thereof.
<b>Standardization Activities</b>	Has established a comprehensive machine standards program for snowmobile manufacture. Since February 1, 1975, all snowmobiles produced by participating manufacturers conform to the minimum safety standards for snowmobile product manufacture in effect on the date of their manufacture. Incorporated in the standards are requirements for seats, controls, brake and fuel systems, shields and guards, electrical and lighting systems, reflectors, hand grips, general hazard requirements and emergency starting.
<b>Availability</b>	Sold directly
<b>Keywords</b>	snowmobile; safety; acoustics; recreation;
<b><u>SOCIETY FOR EXPERIMENTAL MECHANICS, INC.</u></b>	
	Kenneth A. Galione, Managing Director
	7 School Street Bethel, Connecticut 06801 (203) 790-6373
	Founded: 1943
<b>Type of Organization</b>	Scientific Society Standards Developer
<b>Standards Development</b>	Standards developer since 1980 Forty firms participate in standards activity One active standard pending through ANSI
<b>Standards Designation</b>	Strain Gage Bridge Designation and Color Code of Terminal Connections for Portable Strain Indicators
<b>Certification</b>	No certification, qualification, or accredited programs in United States. SEM is affiliated with the British Society for Strain Measurements which does certify and accredit.
<b>Scope</b>	Specialists in experimental mechanics in this country and overseas active in academic, government, and industrial research and development and include engineers, manufacturers, consultants, user and vendors



of plant equipment, services, and systems. Maintains close contact with professional groups in Europe, Japan, Korea and in the United States through joint meetings and combined memberships.

**Standardization  
Activities**

Represents a broad range of activities in experimental mechanics. Various Technical Division Committees serve professional interests in areas such as composite materials, fracture, modal analysis, structural testing, residual stresses, optical methods, strain gages, and transducers. Members active in non-destructive testing are currently part of the Modal Analysis Committee but are expected to form an independent unit.

**Availability**

Distributed directly

**Formerly**

Society for Experimental Stress Analysis

**Keywords**

structural stress; material stress; experimental mechanics; testing;

**SOCIETY FOR INFORMATION DISPLAY**

Lawrence E. Tannas, Jr., President

8055 West Manchester Avenue, Suite 615  
Playa del Rey, California 90293  
(213) 305-1502

Founded: 1962

**Type of  
Organization**

Technical engineering professional society.  
Volunteer professional organization devoted to the understanding of displays

**Standards  
Development**

Joint standards with Electronic Industries Associations through joint committees with SID writing standards and EIA administering standards written by SID. SID Definitions and Standards Committee maintains liaison with other standards formulating groups within the industry.

**Standards  
Designation**

SID/EIA prefixes

**Scope**

SID is international in scope with membership in academic, commercial and government organizations. Display theory, display device and systems development and psychological and physiological effects of displays are all within the area of activities performed by the society.

<b>Standardization Activities</b>	Flat panel, cathode-ray and other display devices and systems definitions, test methods and tutorial documents. Two joint SID/EIA committees are currently active in writing standards. These are JT20 for Cathode-Ray Display Devices and JT33 for Flat Panel Displays.
<b>Availability</b>	Directly through EIA or SID
<b>Keywords</b>	displays; definitions; characterization; viewability; data processing; electronics; television; communications;

#### **SOCIETY FOR TECHNICAL COMMUNICATION**

	William C. Stolgitis, Executive Director
	901 N. Stuart Street Arlington, Virginia 22206 (703) 737-0035
	Founded: 1957
<b>Type of Organization</b>	Technical Society Standards Developer
<b>Scope</b>	A nonprofit, educational membership organization whose purpose is to advance the theory and practice of technical communication in all media. It has chapters in the United States, Canada, and other countries.  Activities include chapter programs, an annual international technical communication conference, publication of a journal, and standards and reference material used in technical documentation, manuals, reports, and writings.
<b>Standardization Activities</b>	Maintains a Standards Council which is interested primarily in guidelines which bear directly upon the profession of technical communications, and data and procedural standards for science, engineering, and the arts that must be applied, interpreted, or referenced in technical communication. Cooperates with the American National Standards Institute, the Metric Association, and others concerned with publication of technical information.
<b>Formerly</b>	Merger of Association of Technical Writers and Editors, and Society of Technical Writers (1957)
<b>Keywords</b>	technical writing; technical information; communications; metric;

**SOCIETY OF AUTOMOTIVE ENGINEERS**

Herb Kaufman, Manager, Land and Sea Technical Division  
Bill Wagner, Manager, Air and Space Technical Division

400 Commonwealth Drive  
Warrendale, Pennsylvania 15096  
(412) 776-4841      Telex: 866-355  
Fax: (412) 776-0002

Founded: 1902

### Type of Organization

## Professional Society Standards Developer

## Standards Development

Standards developer since 1902  
14,000 members participating in standards activities  
1,300 ground vehicle documents published in SAE Handbook  
1,700 aerospace documents published in looseleaf form  
2,200 Aerospace Material Specifications published in looseleaf form and microfiche  
Approximately 500 documents annually are processed through ANSI

## Standards Designations

J-Reports, Ground Vehicle Industry Standard,  
Recommended Practice and Information Report  
AMS, Aerospace Material Specification  
MAM, Metric Aerospace Material Specification  
AS, Aerospace Standard  
MA, Metric Aerospace Standard  
ARP, Aerospace Recommended Practice  
MAP, Metric Aerospace Recommended Practice  
AIR, Aerospace Information Report  
HIR, Hydrospace Information Report

## Government Adoption

The Department of Defense has adopted 1,300 SAE documents. SAE standards are recognized in government publications as methods for measuring or testing for minimum technical requirements in areas where government regulatory control has been established.

## Accreditation

SAE operates several accreditation programs under the sponsorship of industry and government. The Lubricants Review Program and Oil Labelling Assessment Programs are operated for the U.S. Army. The JGES Verification Program operated under a contract for NIST. A new Defense Contractor Accreditation (NADCAP) program will audit and approve suppliers to the aerospace industry.

## Secretariats

Sponsors several U.S. Technical Advisory Groups for ISO Technical Committees and Subcommittees including ISO/TC 20, TC 22, TC 127 and TC 96.



## Scope

A not-for-profit educational, scientific, and engineering society dedicated to advance the arts, sciences, standards, and engineering practices connected with the design, construction, and utilization of self-propelled mechanisms, prime movers, components thereof, and related equipment to preserve and improve the quality of life.

Prime objectives are to provide educational opportunities for engineers and to provide a medium through which they can advance the arts and science of engineering and promote public welfare. There are only individual memberships in SAE. Therefore, members perform their SAE functions as individuals, not as representatives of their employers. SAE interfaces with every agency of the government concerned with the design, manufacture, or regulation of vehicles. Because of the government's interest in regulatory activities relating to transportation equipment, and as a large volume purchaser of vehicles of all types, government agencies have historically drawn upon SAE and its Cooperative Engineering Program for information and assistance.

Develops and publishes technical literature and formulates engineering standards, specifications, and test procedures that are used in the design and manufacture of ground and aerospace vehicles.

## Standardization Activities

Engages in technical standardization work for the motor vehicles, aircraft, airline, space vehicles, farm tractor, earthmoving, and roadbuilding machinery, and other manufacturing industries using internal combustion engines. Standards are the product of 600 Technical Committees. The SAE Handbook includes more than 1,300 ground vehicle industry standards. Standards are revised as needed to keep them up to date with new engineering developments. Obsolete standards are discontinued. Standards in the SAE Handbook include safety performance test codes, material specifications, and dimensional requirements on such subjects as vehicle lighting, tires, brakes, ride and vibration, steels, non-metallic materials, screw threads, and involute splines. Although voluntary, SAE standards are widely used throughout industry and many federal and state regulations reference them for minimum performance on safety items.

SAE Aerospace Standards, Recommended Practices, and Information Reports are design and/or parts standards applicable to missile, airframe, ground-support equipment, propulsion, propeller, accessory equipment, and airline industries. Aerospace Recommended Practices give dimensional, design and/or performance recommendations intended as guides for standard

engineering practice. The Aerospace Information Reports contain useful engineering data and information.

SAE Aerospace Material Specifications cover materials, material tolerances, quality control procedures and processes. They list chemical composition, detailed technical requirements, and cross-reference similar specifications and materials for corrosion and heat resistant steels, wrought low-alloy steels, cast iron and low-alloy steels; aluminum, magnesium, copper, titanium and miscellaneous nonferrous alloys; nonmetallics, special property materials, and refractory and reactive materials.

<b>Availability</b>	Distributed through ANSI, IHS, Global, NSA, American Technical Publishers, and Navy Publications and Forms Center
<b>Formerly</b>	Society of Automobile Engineers (1905)
<b>Keywords</b>	vehicles; automobiles; trucks; buses; aircraft; aerospace; engines; tractors; farm equipment; construction equipment; ground support equipment; fuels; lubricants; material; metals; alloys; refractories; defense; materials; transportation;

#### SOCIETY OF FIRE PROTECTION ENGINEERS

D. Peter Lund, Executive Director

60 Batterymarch Street  
Boston, Massachusetts 02110  
(617) 482-0686

Founded: 1950

<b>Type of Organization</b>	Professional Society Works through other organizations to develop standards
<b>Representation</b>	592 representatives serve on technical committees of the National Fire Protection Association
<b>Scope</b>	Multinational professional society of fire protection engineers with more than 3,500 members.
<b>Keywords</b>	fire safety;

## SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS

Lynette Robinson, Executive Director  
Sherwin G. Becker, Director of Engineering

595 W. Harsdale Avenue  
White Plains, New York 10607  
(914) 761-1100

Founded: 1916

### **Type of Organization**

Technical Society  
Standards Developer

### **Standards Development**

Standards developer since 1916  
650 members participating in standards activities  
50% processed through ANSI  
Draft standards available for review

### **Standards Designation**

SMPTE/RP prefix; ANSI PH22.x; ANSI V98.x

### **Government Adoption**

DoD adopts these standards regularly

### **Certification**

No certification, qualification, or accreditation  
programs

### **Scope**

A nonprofit organization concerned with the engineering  
aspects of motion pictures, television,  
instrumentation, high-speed photography, and the allied  
arts and sciences. Develops technical standards for  
motion picture engineering and television.

### **Standardization Activities**

Activities divided among eight parent technology  
committees. Cooperates with national and international  
organizations such as AES, EIA, IEEE, International  
Radio Consultative Committee (CCIR), and major foreign  
national standards bodies.

### **Availability**

Distributed directly or through ANSI

### **Formerly**

Society of Motion-Picture Engineers

### **Keywords**

motion pictures; television; video recording;  
photography; communications;



## SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS

Robert G. Mende, Executive Director

601 Pavonia Avenue, Suite 400

Jersey City, New Jersey 077306

(201) 798-4800

Telex: 126394 (AEGIS NYK)

Fax: (201) 798-4985

Founded: 1893

### **Type of Organization**

Professional Society

Works through other organizations to develop standards

### **Representation**

ASTM F-25

### **Scope**

A technical, professional society of individual members serving the maritime and offshore industry and its suppliers. Activities include all aspects of research, design, production, maintenance and operation of ships, submersibles, yachts, boats, offshore and ocean bottom structures, and other advanced marine vehicles. Provides a forum for exchange of technical information and administers a research program involving 100 individuals as voluntary members and permanent staff in cooperation with government and regulatory agencies, scientific and research laboratories, academic institutions, and the marine industry.

### **Standardization Activities**

Although not a standards developing organization, one of its technical panels has the responsibility of initiating standards and specification for the Shipbuilding Standards Committee F-25 of the American Society for Testing and Materials (ASTM). This is Panel SP-6 (Standards and Specifications) of the Ship Production Committee. In this way, SNAME interfaces directly with the F-25 standards development activity. F-25 draws upon the expertise in the SNAME Technical and Research Program by soliciting the need for certain shipbuilding standards and by using these same panels when conducting the necessary consensus review under the ASTM process. These standards are published periodically by ASTM.

Standards developed to date include various shipbuilding parts, such as cable brackets, hangars, pipe fittings and flanking, certain containers, angle irons, etc. Panel SP-6 is also involved in a program for the redrawing of selected Naval military specifications into commercial ASTM standards. SNAME members are called upon to review much of this standards writing along with the standards committees of ASTM.

Certain panels of the Society are also called upon to comment on the Standards development for small boats undertaken by Underwriters Laboratories (UL).

**Keywords**

marine; shipbuilding; boats; transportation;

**SOCIETY OF THE PLASTICS INDUSTRY**

Larry L. Thomas, President

1275 K Street, NW, Suite 400  
Washington, DC 20005  
(202) 371-5200

Founded: 1937

**Type of  
Organization**

Trade Association  
Standards Developer

**Certification**

Vinyl windows complying with ASTM D4099 are listed in the Vinyl Window and Door Institute Certified Products Directory.

**Scope**

A trade and technical society of 1,200 companies in the plastics industry interested in quality standards, research, uniform accounting, traffic rates, wage rate survey, tariffs, codes, public relations, informative labeling, safety, fire prevention, and food packaging. Membership consists of injection, compression, and transfer molders; laminators; extruders; fabricators; calenderers; printers; embossers; reinforced plastics processors; raw material suppliers; machinery and equipment manufacturers; tool, die and mold makers; research, development; and testing laboratories.

**Standardization  
Activities**

Cooperates and supports the preparation of standards for plastics products through organizations such as the American Society for Testing and Materials, the American National Standards Institute, and the National Sanitation Foundation. Financially supports ANSI which holds the secretariat to International Organization for Standardization, ISO/TC 61, Plastics, and participates in its activities

Two divisions of the society have their own standardization programs: the Vinyl Siding Institute, and the Vinyl Window and Door Institute. These organizations develop product performance standards, and test methods which are processed through the American Society for Testing and Materials. These activities maintain liaison with code and regulatory agencies and work to have vinyl building components accepted as generic products in code standards.

**Keywords** plastic; laminate; molding; machinery; materials;  
building products;

**SOLAR RATING AND CERTIFICATION CORPORATION**

Scott Sklar, Executive Director

777 North Capitol Street, #805  
Washington, DC 20002  
(202) 408-0306

Founded: 1974

**Type of Organization** Rating and Certifying Body

**Standards Designations** SRCC prefix

**Certification** The Solar Rating and Certification Corporation (SRCC) certifies several independent testing laboratories for solar collector and solar domestic hot water systems tests, SRCC randomly selects equipment for testing, interprets test data, and publishes a certified product rating directory.

**Scope** Manufacturers and installers of solar energy systems and components, and distributors, contractors, and engineers whose purpose is to accelerate and foster commercialization of solar energy conversion for economic purposes. Compiles statistics and offers computerized services.

**Standardization Activities** The Solar Rating and Certification Corporation develops solar industry certification standards for heating and cooling equipment. Members are also involved in international standards development activities.

Approximately 25-50 member companies are involved at different times in several standards organizations.

**Availability** Distributed directly

**Keywords** solar collectors; heating; air conditioning; testing; energy;

**SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL**

W. J. Tangye, P. E., Chief Executive Officer

900 Montclair Road  
Birmingham, Alabama 35213  
(205) 591-1853



Founded: 1940

Standards Staff: 10

**Type of  
Organization**

Professional Society  
Standards Developer

**Standards  
Development**

Standards developer since 1945  
5,500 members active in standards activities

**Standards  
Designations**

The Standard Building, Plumbing, Mechanical, Gas, Fire  
Prevention and Housing Codes

**Government  
Adoption**

These codes have been adopted by reference by some  
2,200 communities primarily in the Southwest, South,  
and Southeast.

**Certification**

Provides educational and certification programs for  
persons involved in the administration and enforcement  
of building codes.

**Scope**

Promulgates codes that will assure the minimum  
acceptable level of life safety in the building  
environment. These cover the entire scope of the  
construction industry as related to buildings and  
structures occupied by the public. Also provides  
technical, educational and computer support to users of  
the codes.

**Standardization  
Activities**

Holds public hearings to update codes. Any interested  
party may submit proposes changes and participate in  
the public hearings, two of which are held each year.  
Subsequent to the second public hearing a letter ballot  
is sent to all governmental members for final approval  
of code changes.

**Availability**

Distributed directly

**Formerly**

Southern Standard Codes

**Keywords**

building code; mechanical code; gas code; fire code;  
safety; housing code; safety; construction; building;

**SOUTHERN CYPRESS MANUFACTURERS ASSOCIATION**

Susan M Regan, Executive Vice President

2831 Airways Boulevard, Suite 205  
Memphis, Tennessee 38132  
(901) 346-2222

Founded: 1905

**Type of  
Organization**

Trade Association  
Standards Developer

<b>Scope</b>	Producers, wholesalers and distributors of cypress lumber and manufacturers of other cypress products.
<b>Standardization Activities</b>	Publishes grading rules for cypress lumber.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	wood products; grading rules; lumber; cypress;

#### SOUTHERN FOREST PRODUCTS ASSOCIATION

Karl W. Lindberg, President

P.O. Box 52468  
New Orleans, Louisiana 70152  
(504) 443-4464

Founded: 1915

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Scope</b>	An association of 42 southern pine companies with 138 mills located from Texas to Virginia conducting marketing research and public affairs programs and a biennial machinery exposition.
<b>Standardization Activities</b>	Standards developed through organizations like the Southern Pine Inspection Bureau, National Forest Products Association, American Wood Preservers Association, and the American Society for Testing and Materials are used extensively in SFPA marketing efforts. These include span tables, recommendations for end use applications, treating specifications, metric conversions, model building codes, and other similar activities dealing with lumber applications.
<b>Formerly</b>	Southern Pine Association
<b>Keywords</b>	lumber; wood products;

#### SOUTHERN PINE INSPECTION BUREAU

Tom S. Jones, President

4709 Scenic Highway  
Pensacola, Florida 32504  
(904) 434-2611

Founded: 1940

Standards Staff: 8

<b>Type of Organization</b>	Service Bureau Standards Developer Works through other organizations to develop standards
<b>Standards Development</b>	Standards developer since 1940 350 subscribers representing 70% of Southern Pine production Five active standards
<b>Standards Designation</b>	SPIB prefix
<b>Government Adoption</b>	The Departments of Defense and Veterans Affairs, Federal Housing Administration, and various state and local regulatory agencies have adopted and recognized the Southern Pine Inspection Bureau Grading Rules.
<b>Certification</b>	Maintains a certification program in which it licenses subscribers to use its registered grade-mark when subscribers meet the necessary qualifications. The Bureau maintains a similar program for companies that treat lumber by a pressure process for protection against insect and decay attack with approved chemicals in accordance with the standards of the American Wood Preservers Association.
<b>Scope</b>	An autonomous nonprofit agency and the recognized organization in the Southern Pine industry for the formulation and maintenance of grading standards. Has carried on a standardization program since 1940 developing grading rules for Southern Pine lumber in conformance with the American Lumber Standards Voluntary Products Standard PS 20-70 published by the National Institute of Standards and Technology.  Certified as a supervisory grading agency by the board of review of the American Lumber Standards Committee.
<b>Standardization Activities</b>	Actively participates in the formulation and maintenance of the American Lumber Standards for Softwood Lumber. Maintains representation on the Committee on Wood of the American Society for Testing and Materials and American Wood Preservers Association. Member of ANSI.  Maintains standards of size and grade classifications for the benefit of the lumber using public and the lumber manufacturing industry. These include domestic and export grade rules and standards for glued lumber and machine stress rated lumber. Provides inspection facilities. These inspection facilities are used not only as a means of adjudicating disputes between buyers and sellers but also for the certification of Southern Pine lumber before shipment from the mill. Grading and manufacture are under the supervision of Bureau Quality



Supervisors. Those mills which prove their proficiency in grading and agree to maintain the established standards of size and grade moisture content are licensed to grade-mark their lumber with a Bureau mark.

The quality of treatment of lumber treated by the pressure process is also under the supervision of Bureau Quality Supervisors and those treating plants which prove their proficiency and capability of maintaining the required level of treatment are licensed to quality mark their lumber with a Bureau mark indicating the quality and symbolizing such supervision.

**Availability**

Sold directly

**Keywords**

wood products; grading rules; lumber; wood preservation; inspection;

**SOUTHWEST RESEARCH INSTITUTE**

Joseph S. Kittle, Director

Program Development Office

Post Office Drawer 28510

San Antonio, Texas 78284

(512) 684-5111

Telex: 244846

**Type of  
Organization**

Nonprofit Research Institute

Works through other organizations to develop standards

**Representation**

ANSI, ASME, API, ASTM, IEEE, NFPA, SAE, National Marine Manufacturers Association

**Scope**

Performs contract research and development for commercial, industrial and governmental agencies in a wide range of technologies. Some of this work specifically supports development of standards.

**Standardization  
Activities**

Works with SAE and API under sponsorship of the Coordinating Research Council, Inc. in the development of rating standards used to subjectively rank the results of an engine oil test. These rating standards evaluate sludge, varnish, rust, and other visible phenomenon, such as ring sticking, scuffing, and wear. These standards are the only recognized subjective rating techniques used by industry in the evaluation of engine lubricants. In a similar capacity, develops standardized test procedures and performs certification testing to evaluate two-cycle engine lubricants for the National Marine Manufacturers Association. Worked with ASTM and automobile manufacturers in the development of the industry-recognized Sequence Tests for diesel and gasoline engine lubricants. Participated in

development of standards for electromagnetic compatibility which resulted in SAE J1338 and J1113.

**Keywords**

certification; lubrication; engines; testing; EMC; electrical equipment; materials;

**SPARC INTERNATIONAL (SCALABLE PROCESSOR ARCHITECTURE, INC.)**

Robert W. Duncan, Chairman and CEO  
Gregory Leonard, Executive Director

1250 Oakmead Parkway, Suite 210  
Sunnyvale, California 94088  
(408) 737-7272 Fax: (408) 746-3630

Founded: 1989

**Type of  
Organization**

Vendor Consortium  
Standards Developer

**Standards  
Development**

Development of the SPARC microprocessor architecture standard and compliance definitions and testing suites

**Government  
Adoption**

Government agencies world-wide are evaluating adoption of next generation 32-bit RISC (reduced instruction set computer) architectures, including SPARC.

**Certification**

SPARC International provides certification testing against the SPARC Compliance Definition for chip, systems and software vendors, and administers the licensing of the SPARC trademark to vendors of compatible products.

**Scope**

An international not-for-profit vendor consortium dedicated to the expansion of the SPARC UNIX, real-time, embedded systems and ISV software markets, and to the promotion of the SPARC architecture as an open standard. Member companies participate in decisions affecting the evolution of the architecture, and contribute to establishing the SPARC architecture as the only open 32-bit microprocessor standard.

**Standardization  
Activities**

Focuses on activities that support the growth of the SPARC market infrastructure and expand opportunities for SPARC vendors. Develop and evolve compatibility testing suites and procedures for use by SPARC vendors. Cooperate with other standards organizations whose activities further SPARC International goals.

**Keywords**

SPARC; RISC; UNIX systems; embedded control; real-time systems; open systems; information processing;

## SPECIAL LIBRARIES ASSOCIATION

David Bender, Executive Director

1700 18th Street, NW  
Washington, DC 20009  
(202) 234-4700

Founded: 1909

Standards Staff: 1

**Type of Organization** Professional Society  
Works through other organizations to develop standards

**Representation** Represented on ANSI committees concerned with development of standards in the following areas: library/information science and publishing practices, photographic reproduction, and library equipment.

**Scope** An international organization of more than 12,000 librarians and information managers. Serves industry, business, government agencies, research, educational, and technical institutions requiring or providing specialized information.

**Standardization Activities** Participates in the work of ANSI accredited organizations including PH5, Photographic Reproduction of Documents; Z39, Library/Information Science and Related Publishing Practices; Z85, Library Equipment and Supplies. The SLA Standards Committee provides guidance in these areas. Publishes "Objectives for Special Libraries" which sets forth standards for objectives, staff, collection, services, physical facilities, and budgets for special libraries.

**Keywords** library equipment; library science; information processing; office products;

## SPONGE AND CHAMOIS INSTITUTE

Jules Schwimmer, Executive Secretary

60 East 42nd Street  
New York, New York 10165  
(212) 867-2290

Founded: 1933

**Type of Organization** Trade Association  
Standards Developer

**Scope** Represents dealers and suppliers of natural sponges and genuine chamois. Seeks to increase public awareness of the distinctive properties and qualities of genuine chamois.



<b>Standardization Activities</b>	Works with the government and other organizations to develop standard characteristics for genuine chamois. Developed Chamois Standard CS 99-1970, which defines the general and performance characteristics of genuine chamois skin.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	sponge; chamois; materials; consumer products;

# **SPORTING ARMS AND AMMUNITION MANUFACTURERS INSTITUTE**

Robert T. Delfay, Executive Director

555 Danbury Road  
Wilton, Connecticut 06897  
(203) 262-5463

Founded: 1926                      Standards Staff: 1

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1926 41 representatives active in standards activity Draft standards available for review

<b>Standards Designation</b>	ANSI/SAAMI and SAAMI prefixes
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<b>Government Adoption</b>	Used by Department of Defense in relation to manufacturing, testing, and performance specifications of commercial ammunition purchased by the U.S. government.
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<b>Scope</b>	Serves the mutual interests of the U.S. sporting firearms and ammunition industry with emphasis on activities to assure safe use of these products by sportsmen and others having a lawful need for them.
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<b>Standardization Activities</b>	Maintains a Technical Committee which reviews industry test methods, procedures, and recommended manufacturing safety practices; two subcommittees work in the areas of ammunition and firearms. Establishes definitive proof loads recommended for factory tasting of U.S. made sporting firearms, thus assuring greater safety to the user of such arms. Maintains liaison with the Department of Defense in relation to manufacturing, testing, and performance specifications of commercial ammunition purchased by the government
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<b>Availability</b>	Sold directly and through ANSI
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**Formerly** The Society of American Manufacturers of Small Arms and  
Ammunition (1918-1926)

**Keywords** ammunition; firearms; defense; safety; sports;

**SPORTS CAR CLUB OF AMERICA**

Nicholas Craw, President

9033 E. Easter Place  
Englewood, Colorado 80112  
(303) 694-7222

Founded: 1944

**Type of Organization** Recreational/Technical Society  
Standards Developer

**Scope** A nonprofit organization with 52,000 members. Sanctions national and regional races and ten major professional racing series listed on the International Calendar. Sanctions rallies (precision driving tests over a given route at an exact speed), solo events (intricate driving maneuvers in a cleared area), concours d'elegance (rating cars by a correlation of age, condition, and equipment of the vehicle), and numerous international events and world championship races.

**Standardization Activities** Develops safety standards for competitions, and standards and procedures for speed events for automobiles which may take part in events, for issuance of competition licenses, and for the organization and conduct of its events. These standards and procedures are published in General Competition Rules; Rally and Solo Rules; and Professional Racing Regulations.

Participates in American National Standards Committee Z90, Vehicular Head Protection, concerned with safety requirements for head protection for automobile drivers engaged in high hazard activities or occupations, as well as crash helmets for motorcyclists, American National Standard Z90.1.

**Availability** Distributed directly

**Keywords** sports; automobile racing;

## STANDARDS COMMITTEE FOR HI-LOK, HI-TIGUE, AND HI-LITE PRODUCTS

Michael M. Schuster, Chairman

2600 Skypark Drive  
Torrance, California 90509  
(213) 326-8110                      Telex: 67-4406

**Type of  
Organization**

Trade Association  
Standards Developer

**Certification**

Licensees are under surveillance and approval by the  
Committee

**Scope**

Actively engages in standardization activities for  
fasteners. Membership includes and is open to  
licensees of Hi-Shear Corporation, users of products,  
and government standardization representatives.

**Standardization  
Activities**

Develops, publishes, and maintains hundreds of  
proprietary product standards, specification, and  
process procedures for the proprietary Hi-Lok, Hi-  
Tigue, and Hi-Lite fasteners. Holds three official  
meetings each year, one of which is an international  
meeting held in Europe. Solicits input from all  
members.

**Availability**

Distributed directly

**Keywords**

fasteners; manufacturing;

## STANDARDS ENGINEERING SOCIETY

Francine W. Rickenbach, CAE, Executive Director

11 W. Monument Avenue, Suite 510  
P.O. Box 2307  
Dayton, Ohio 45401-2307  
(513) 223-2410

Founded: 1947

**Type of  
Organization**

Professional Society

**Representation**

Approximately 50% of the members are active in  
standardization activities of a standards developers  
ranging from international organizations to trade  
associations.

**Certification**

Certification program exists in Standards Engineering;  
over 200 members currently certified.



<b>Scope</b>	A professional technical society of 800 standards practitioners for companies and government agencies. Members are organized into 20 local sections throughout the United States and Canada. Objectives include providing a forum for the interchange of information in the field of standardization and promoting the knowledge and use of national and international standards.
<b>Standardization Activities</b>	SES does not generally develop standards as a society but members represent their organizations on numerous national and international standards-making committees. However, the Society is developing a proposed American National Standard for designations, titles, keywords, abstracts and formats for standards, as well as a proposed American National Standard for standards indexes and catalogs.
<b>Formerly</b>	Standards Engineers Society (1980)
<b>Keywords</b>	standards profession; general; social welfare; standards users;

#### **STEEL DECK INSTITUTE**

Bernard E. Cromi, Managing Director

P.O. Box 9506  
Canton, Ohio 44711  
(216) 493-7886

Founded: 1936

Standards Staff: 2

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1939 Active in AISI, AISC and ASCE None processed through ANSI
<b>Representation</b>	Technical personnel of member firms serve on standards committees and subcommittees of organizations such as AISI, AISC and ASCE.
<b>Certification</b>	Provides to its members, as well as non-members, a product certification service by independent engineers at appropriate charges.
<b>Scope</b>	Manufacturers of steel roofs and steel floor decks. Formulates technical recommendations for improvement of metal deck construction and develops standard design

practices. Promotes proper building regulations. Conducts research on earthquake construction and fire and wind resistance. Compiles statistics.

**Standardization  
Activities**

Periodically publishes the Steel Deck Institute Design Manual for Composite Decks, Form Decks, and Roof Decks. It contains: Specifications and Commentaries, the Code of Recommended Standard Practice, Roof Deck Construction, Suggested Architect's Specifications, SDI Standard Load Tables, Roof Deck Fire Resistance Ratings, and Cantilever Criteria. Also publishes the Steel Deck Institute Diaphragm Design Manual.

**Formerly**

Metal Roof Deck Technical Institute

**Keywords**

steel decks; roofs; building;

**STEEL DOOR INSTITUTE**

Allen P. Wherry, Managing Director

30200 Detroit Road  
Cleveland, Ohio 44145  
(216) 899-0010

Telex: 98-5559

Founded: 1954

Standards Staff: 3

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1954  
12 member companies participating in standards activities  
Seventeen active standards including three ANSI standards

**Government  
Adoption**

SDI standards have been adopted by numerous government agencies.

**Certification**

No certification, qualification, or accreditation programs

**Scope**

A nonprofit trade association of U.S. companies engaged in the production for sale of swing type steel doors and frames in the construction industry.

**Standardization  
Activities**

Administered by its Technical Committee, standardization activities represent a large percentage of the Institute's total program. Maintains liaison with numerous federal agencies including General Services Administration, Corps of Engineers, Department of Defense, Department of Housing and Urban Development, Federal Housing Administration and the Department of Veterans Affairs. Works closely with

various code groups and has been instrumental in establishing and promulgating a great number of standards helpful to the construction industry, including standardized specifications for steel doors and frames, standardized hardware locations and hardware preparation, building code improvements, and establishment of performance specifications.

**Availability** Distributed directly

**Keywords** steel doors; frames; building;

**STEEL FOUNDERS SOCIETY OF AMERICA**

Malcolm Blair, Technical and Research Director

Cast Metals Federation Building  
455 State Street  
Des Plaines, Illinois 60016  
(312) 299-9160

Founded: 1902 Standards Staff: 2

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1964  
134 members participating in standards activities  
14 specifications on foundry raw materials

**Standards Designation** SFSA prefix

**Certification** No certification, qualification, or accreditation programs

**Secretariats** U.S. Subcommittee Advisory Group to ISO/TC, 17/SC 11, Steel Castings

**Scope** Manufacturers of steel castings. Compiles statistics and conducts research programs.

**Standardization Activities** Develops own standards for foundry raw materials and works through other organizations to develop standards for the manufacture and use of carbon, low alloy and high alloy steel castings. Also participates in ASTM, ANSI, NACE, API, MSSVFI, ASME standards activities.

**Availability** Distributed directly

**Formerly** Alloy Casting Institute (1970)

**Keywords** steel; castings; high alloy; foundry; materials;



## STEEL JOIST INSTITUTE

E. T. E. Sprague, Managing Director

1205 48th Avenue North, Suite A  
Myrtle Beach, South Carolina 29577  
(803) 449-0487

Founded: 1928

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1928

**Certification**

Established certification procedures are required for member companies.

**Scope**

A nonprofit organization of manufacturers engaged in the manufacture and distribution of steel joists. Objectives are to establish and standardize methods of design and construction for steel joists, to provide test and research data for public dissemination, to assist in the development of appropriate building code regulations and to publish information relative to the proper use of steel joists in the interest of safety and public welfare.

**Standardization  
Activities**

Current standard specifications are recognized throughout the industry and include Load Tables for Open Web, Longspan, and Deep Longspan Steel Joists comprising K-Series, LH-Series and DLH-Series. In addition, the Institute has developed standard specification and weight tables for Joist Girders, which are primary structural members.

**Availability**

Sold directly

**Keywords**

joist; steel joists; building;

## STEEL MANUFACTURERS ASSOCIATION

Jim Collins, Executive Vice President

815 Connecticut Avenue, NW  
Washington, DC 20006  
(202) 331-7027

Founded: 1911

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

<b>Representation</b>	ASTM
<b>Scope</b>	A voluntary trade association involved with the solution of operational problems in electric furnace steel-making and rolling of bar products to accepted standards.
<b>Standardization Activities</b>	<p>Standards activities, primarily in the development of bar standards in billet, rail, and axle steel, are undertaken on a cooperative basis with the American Society for Testing and Materials and other standards groups.</p> <p>The Technical Committee, the Permanent Rail Steel Committee, and the Product Quality Committee of the Plant Operations Division maintain ongoing work in standards. Cooperates with Canadian standards organizations and the National Institute of Standards and Technology.</p> <p>Does not issue standards but sponsors American Society for Testing and Materials Standards A616, A617 Rail and Axle Steel, Concrete Reinforcing Bars, and a Standards Specification for Hot Rolled Steel Fence Posts. Additional counsel and committee activity with ASTM are also undertaken by the association.</p>
<b>Formerly</b>	Rail Steel Bar Association (1968)
<b>Keywords</b>	steel; steel bars; materials;

#### STEEL PLATE FABRICATORS ASSOCIATION

Ward A. Gill, Executive Director

2400 S. Downing Avenue  
Westchester, Illinois 60154  
(708) 562-8750

Founded: 1933

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Representatives of member companies are appointed to serve on standards committees of AWWA, ASME, ANSI, API, AWS, NFPA and others.
<b>Scope</b>	A national trade association representing companies engaged in the fabrication and erection of all types of weldable metal plate into pressure and nonpressure

tanks, processing and storage vessels, heat exchangers, penstocks, weldments, and other products for industries worldwide.

**Standardization  
Activities**

Works with standards developing organizations to update accepted standards in order to keep current with continuing improvement in materials and techniques.

**Keywords**

steel fabrication; steel plate; manufacturing;  
industrial equipment;

**STEEL SERVICE CENTER INSTITUTE**

Andrew G. Sharkey, President

1600 Terminal Tower  
Cleveland, Ohio 44113-2229  
(216) 694-3940                      Telex: 297632  
   Fax: (216) 694-3940

Founded: 1909

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

Two safety specialists from member companies serve as voting delegates on ANSI B11 Committee.

**Scope**

A voluntary trade association representing the interests of some 80 percent of the metal service center industry which serves the metal supply needs of some 300,000 manufacturers and fabricators through 1,000 outlets.

**Standardization  
Activities**

Participates in the development of safety standards for powerdriven machines used by the industry as developed through Committee B11.

**Formerly**

American Iron, Steel, and Heavy Hardware Association  
(1909)  
American Steel Warehouse Association (1934)  
Steel Service Center Institute (1959)

**Keywords**

metal; steel; distribution; materials;



## STEEL SHIPPING CONTAINER INSTITUTE

Malcolm M. Anderson, Executive Director

2204 Morris Avenue  
Union, New Jersey 07083  
(201) 688-8750

Founded: 1944

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

SSCI serves as the Secretariat for the American National Standards Institute's ANSI MH2 Committee on new steel drums and pails. The current standards are issued in ANSI MH2-1985 which contains 24 separate standards for steel containers in common use.

**Standards  
Designation**

ANSI MH2-1985

**Government  
Adoption**

By reference in military and federal specifications

**Secretariat**

ANSI Committee MH2, Steel Drums and Pails

**Scope**

The Steel Shipping Container Institute is the Secretariat for this committee which comprises representatives of groups directly affected by the consensus standards for steel drums and pails. These groups include carriers, manufacturers, user groups and regulators who agree on the rules and regulations which are covered by these standards. Public canvass is conducted by ANSI after the committee agrees to content. Once any comments resulting from the canvass are resolved, the edited standards are published by ANSI showing the members of the committee including the SSCI Secretariat.

**Availability**

Distributed through ANSI

**Keywords**

packaging; pails; drums;

## STEEL STRUCTURES PAINTING COUNCIL

Dr. Bernard R. Applemer, Executive Director

4400 Fifth Avenue  
Pittsburgh, Pennsylvania 15213  
(412) 268-3327

Founded: 1950

<b>Type of Organization</b>	Technical Society Standards Developer
<b>Standards Development</b>	Standards developer since 1950 85 active standards No current standards processed through ANSI Draft standards available for review
<b>Standards Designation</b>	SSPC prefix
<b>Government Adoption</b>	27 standards adopted by DoD
<b>Certification</b>	Painting Contractor Certification Program
<b>Scope</b>	Determines and outlines the best methods developed for cleaning and painting steel; issues specifications covering practical and economical methods of surface preparation and painting of steel structures; and evaluates through long-range research programs involving field and laboratory work the various methods, coatings, and costs necessary to prevent or reduce corrosion on steel structures.
<b>Standardization Activities</b>	35 committees with 1,000 members participating in standards activities. Assimilates the newest technology into usable and effective specifications for the coatings industry. Develops standards through a comprehensive voluntary consensus process. Issues standards for surface preparation, paint application, painting systems, and paints. Surface preparation specifications describe hand and power tool cleaning, chemical cleaning, and all levels of blast cleaning. Develops visual standards for surface appearance after cleaning as an optional supplement to the surface preparation specifications. Paint application specifications include standards for shop, field, and maintenance painting; measurement of paint film thickness, guides for safety in paint application, and a guide for maintenance repainting. Also has visual standards for evaluating the degree of rusting on painted steel surface.
<b>Availability</b>	Distributed directly and through IHS and Global
<b>Keywords</b>	protective coatings; anti-corrosion; painting; paint; steel; materials;

## STEEL TANK INSTITUTE

Brian Donovan, Vice President

728 Anthony Trail  
Northbrook, Illinois 60062  
(312) 498-1980

Founded: 1916

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Designations**

sti prefix

**Government  
Adoption**

The STI-P3 specification is referenced in the final technical requirements (40 CFR 280) for underground storage, as promulgated by the U.S. Environmental Protection Agency.

**Certification**

No certification, qualification, or accreditation programs, although manufacturers are "licensed" to fabricate in accordance with sti-P3 specifications. Strict quality assurance programs are administered by STI.

**Scope**

A trade association representing steel tank manufacturers and suppliers in the United States and Canada. Functions primarily on a national level, representing its members in a wide range of technical, code, and related areas.

**Standardization  
Activities**

Developed STI-P3 standards for exterior corrosion protection of underground steel storage tanks. A limited number of recommended practices also developed by the institute for both underground and aboveground tanks.

**Availability**

Distributed directly

**Keywords**

steel tanks; underground storage; corrosion protection; industrial equipment; construction; aboveground storage;

## STEEL WINDOW INSTITUTE

John H. Addington, Executive Secretary

1230 Keith Building  
Cleveland, Ohio 44115  
(216) 241-7333

Founded: 1920



<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Designation</b>	SWI Recommendations
<b>Scope</b>	A trade association composed of American steel window manufacturers. Through research and interchange of ideas among its members, develops and makes available to the building trade better products and services. Conducts surveys to determine usage data.
<b>Standardization Activities</b>	Issues Recommended Specifications for Steel Windows after performing simplification studies to identify preferred types and sizes. Circulates recommendations to members and interested parties.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Metal Window Institute
<b>Keywords</b>	windows; steel windows; building;

#### STUCCO MANUFACTURERS ASSOCIATION

Robert F. Welch, Executive Secretary

14006 Ventura Boulevard, Suite 204  
Sherman Oaks, California 91403  
(213) 789-8733

Founded: 1957

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Scope</b>	Promotes the use of colored stucco finish coats in building construction. Increases industry's service to contractors, architects, and the public.
<b>Standardization Activities</b>	Develops standards as needed. Publishes Exterior Colored Stucco Guide Specification. Although national in scope, standard variations are recognized because of geographic differences in climate, skilled manpower, and material availability.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	stucco; masonry;

## SUMP AND SEWAGE PUMP MANUFACTURERS ASSOCIATION

Pamela W. Franzen, Managing Director

P.O. Box 298  
Winnetka, Illinois 60093  
(312) 535-8911

Founded: 1956

### **Type of Organization**

Trade Association  
Standards Developer

### **Certification**

Provides a certification and labeling program for all products which conform to specified standards.

### **Scope**

A national trade organization representing the manufacturers of domestic sump sewage and effluent pumps, together with component and accessory suppliers. Activities include development and promulgation of quality standards, spelling out design and performance criteria for sump sewage and effluent pumps used in homes; development and dissemination of statistical information designed to describe market size and activity; promotion of improved provisions in building codes on the use of such pumps; and education efforts designed to encourage proper and safe installation, maintenance, and use of domestic sump sewage and effluent pumps.

### **Standardization Activities**

Developed the Domestic Sump Effluent and Sewage Pump Standards which are national in scope and designed to supply the purchaser and user with accurate performance data and to assist in the determination of proper application and selection of this equipment. They provide a uniform method of testing and rating, and include a specification system covering basic materials of construction for all major components. They also detail minimum specifications for motors, nameplate data, service cords, and control switches.

### **Availability**

Distributed directly

### **Formerly**

Sump Pump Manufacturers Association (1981)

### **Keywords**

pumps; buildings; industrial equipment;

## TECHNICAL AND OFFICE PROTOCOL (TOP)

see CORPORATION FOR OPEN SYSTEMS INTERNATIONAL

## TECHNICAL ASSOCIATION OF THE PULP AND PAPER INDUSTRY

William L. Cullison, Executive Director

Technology Park/Atlanta  
P.O. Box 105113  
Atlanta, Georgia 30348  
(404) 446-1400

Founded: 1915

Standards Staff: 2

### **Type of Organization**

Technical Society  
Test Method Developer

### **Standards Development**

Test methods developer since 1915  
268 Official, Provisional, and Classical Test Methods

### **Standards Designations**

T -- Official, Provisional, and Classical Test Methods  
UM -- Useful Test Methods, which are published by TAPPI  
but have not been through the regulated review process;  
no new UMs will be published after 1989.

### **Scope**

Purposes are to further the application of the sciences  
in the pulp and paper industry; to promote  
investigation, research, and interchange of ideas among  
its members in the field of pulp and paper manufacture  
and use; to promote education in the science and  
practice of pulp and paper manufacture; to arrange for  
the collection and dissemination of information; to  
provide technical facts, data, and testing procedures  
fundamental to pulp and paper manufacture and use; to  
promote the professional, social, and economic welfare  
of its members.

### **Standardization Activities**

Publishes testing procedures which include Official,  
Provisional, Classical, and Useful Methods prepared by  
technical committees and approved by the various  
divisions of TAPPI in accordance with rules and  
regulations prescribed by the Test Methods Management  
Committee. Classical Methods are former Official or  
Provisional methods which have been superseded by  
advanced technology. Useful Methods are those found  
useful in the industry but not worthy of consideration  
as Official or Provisional Methods.

Cooperates with the American Society for Testing and  
Materials, the Intersociety Color Council in developing  
color standards, and the American National Standards  
Institute in promoting American and International  
Standards.

### **Availability**

Distributed directly and through IHS, and Global

### **Keywords**

pulp; paper; forest products; wood products; corrugated  
container; packaging;



## TECHNICAL CERAMICS MANUFACTURERS ASSOCIATION

Richard C. Byrne, Secretary

25 North Broadway  
Tarrytown, New York 10591  
(914) 332-0040

Founded: 1978

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

Manufacturers of kiln fired ceramic compositions which results in ceramic products of many uses that withstand high temperature, long use, great mechanical, electrical and chemical stresses.

**Standardization  
Activities**

Develops standards for general test methods, inspection sampling, loss factor tests, resistance to thermal extremes, and other technical characteristics.

**Availability**

Distributed directly

**Formerly**

Dry Process Manufacturers Association  
Ceramic and Steatite

**Keywords**

ceramic products; materials;

## TEST BORING ASSOCIATION

Bette Katz, Executive Director

P.O. Box 5126  
Old Bridge, New Jersey 08857  
(201) 679-9666

Founded: 1941

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

Promotes and furthers the interests of contractors and others engaged in test boring and core drilling, and engages in activities which enhance the progress of the test boring and core drilling industry.

**Standardization  
Activities**

Developed and has available a Recommended Standard Boring Specification for Cased Borings.

**Availability**

Distributed directly

**Formerly** Test Boring and Core Drilling Contractors Association  
Test Boring Contractors Association (1969)

**Keywords** test boring; earth drilling; construction;

**TEXTILE RENTAL SERVICES ASSOCIATION OF AMERICA**

John J. Contney, Executive Director

1130 East Hallandale Beach Boulevard  
P.O. Box 1283  
Hallandale, Florida 33009  
(305) 457-7555

Founded: 1913

Standards Staff: 3

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1978 in health care linen service and for linen, towels, and garments  
2,200 members participating in standards activities  
28 active standards  
None processed through ANSI  
Draft standards available for review

**Standards Designation** TRSA Guidelines For Healthcare Linen Service  
TRSA Voluntary Purchasing Standards

**Certification** No certification, qualification, or accreditation programs

**Scope** A national trade association representing companies world-wide engaged in the rental and commercial laundering/linen field. TRSA member companies provide laundry and linen service to all areas of U.S. hospitals and all types of commercial establishments.

**Standardization Activities** Directed toward fulfilling user defined requirements of the industry and its health care customers. Works closely with the American Hospital Association and the Joint Commission on Accreditation of Hospitals. TRSA relate to processing, delivery, cleanliness, sanitation, and management standards of textile rental service. Technical input is solicited from throughout the hospital industry and its related trade associations and accrediting agencies.

**Availability** Distributed through TRSA member companies worldwide and directly

**Formerly** Linen Supply Association of America (1978)

**Keywords** laundry; linen service; hospital; textiles; sanitation; public health;

**THERMAL INSULATION MANUFACTURERS ASSOCIATION**

Frank J. Rauscher, Ph.D., Executive Director

29 Bank Street  
Stamford, Connecticut 06901  
(203) 324-7533 Fax: (203) 324-5132

Founded: 1942

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Certification** No certification programs

**Secretariats** ISO/TC 163/WGI, Thermal Insulation Terminology

**Scope** A nonprofit trade association of manufacturers of industrial and commercial types of thermal insulation. Fosters energy conservation, develops application and performance standards, and disseminates information. Conducts health studies related to man-made mineral fiber insulation. Represents manufacturers of calcium silicate, fibrous glass, mineral wool, ceramic fiber, foamed glass, urethane, and other thermal insulations.

**Standardization Activities** Assisted ASTM in preparation of test methods and product standards relating to thermal insulating products. Sponsors research in thermal and mechanical testing, and fire testing. Membership in ASTM, ASHRAE, NFPA, NIBS, and ISO/TC 163.

**Formerly** National Insulation Manufacturers Association

**Keywords** thermal insulation; building; materials;

**TILE COUNCIL OF AMERICA**

Robert J. Kleinhans, Executive Director

P.O. Box 326  
Princeton, New Jersey 08542  
(609) 921-7050

Founded: 1946

**Type of Organization** Trade Association  
Standards Developer



<b>Standards Development</b>	17 active standards Processed through ANSI
<b>Scope</b>	A trade association of ceramic tile manufacturers dedicated to expansion of the ceramic tile industry in the United States through advertising, promotion, and research on tile installation methods.
<b>Standardization Activities</b>	Maintains contact with government agencies and other national organizations to assist with development and interpretation of standards and specification for installation of ceramic tile.  Annually publishes the guide specification Handbook for Ceramic Tile Installation. This covers all accepted ceramic tile installation methods and references installation and material standards applicable to the methods.
<b>Availability</b>	Distributed directly and through ANSI
<b>Keywords</b>	tile; ceramic products; building;

**TIN RESEARCH INSTITUTE, INC.**

William B. Hampshire, Executive Vice President and General Manager

1353 Perry Street  
Columbus, Ohio 43201  
(614) 424-6200

Founded: 1949

Standards Staff: 2

<b>Type of Organization</b>	Professional Society Works through other organizations to develop standards
<b>Scope</b>	Develops the use of tin and promotes the scientific and technical study of the metal, its alloys and compounds, and of industrial processes which use tin or may provide markets.
<b>Standardization Activities</b>	Participates in the development of standards and specifications for tin ingots, tinplates, tin alloys, bearings, solders, pewter and tin, and tin alloy coatings. Membership is held in committees of the International Organization for Standardization (ISO), American Society for Testing and Materials, Institute of Printed Circuits, American Welding Society, American Pewter Guild, and coordination committees for federal specifications.
<b>Keywords</b>	tin; tinplate; solder; pewter; materials;

## TIRE AND RIM ASSOCIATION

J. F. Pacuit, Executive Vice President and Secretary

175 Montrose West Avenue  
Copley, Ohio 44321  
(216) 666-8121

Founded: 1903

Standards Staff: 3

**Type of  
Organization**

Technical Standardizing Organization  
Standards Developer

**Standards  
Development**

Standards developer since 1917  
None processed through ANSI  
Draft standards not available for review

**Standards  
Designations**

Tire and Rim Standard

**Secretariats**

U.S. Technical Advisory Group for ISO/TC 31, Tires,  
Rims, and Valves.

**Scope**

The technical standardizing body of the tire, rim, and  
related parts manufacturers for the United States.

**Standardization  
Activities**

Serves as the primary standards developing organization  
in areas such as tire loads, tire inflations, tire  
dimensions, recommended rims, dual spacings, rim  
dimensions, valve and valve hole dimensions for tire  
and rim equipment used on passenger cars, bicycles,  
motorcycles, motor scooters, trucks, buses,  
recreational vehicles, trailers, earthmovers, road  
graders, agricultural tractors and implements,  
industrial vehicles, mobile homes, and aircraft.

**Availability**

Distributed directly

**Keywords**

tires; rims; valves; transportation; consumer products;

## TOY MANUFACTURERS OF AMERICA

David Miller, President

200 Fifth Avenue  
New York, New York 10010  
(212) 675-1141

Founded: 1916

**Type of  
Organization**

Trade Association  
Standards Developer

<b>Standards Designations</b>	ANSI Z315.1, Safety Requirements for Tricycles; ASTM-F963-86, Voluntary Product Safety Standard for Toys.
<b>Secretariats</b>	U.S. Technical Advisory Group for ISO/TC 181, Toy Safety (observer)
<b>Scope</b>	<p>The trade association for domestic producers and importers of toys, games, and holiday decorations with 230 members which together account for about 90 percent of the toy industry's total sales. The Association is recognized by government, the trade, the media, and consumers alike as the authoritative voice of the U.S. toy industry.</p> <p>Helps toy makers meet the many challenges of the toy manufacturing marketplace. Its programs assist member companies in safety and quality control, credit and collection, distribution management, import/export trade, legal advice, public relations, statistics, consumer information, media relations, and advertising guidelines.</p>
<b>Standardization Activities</b>	<p>The Association actively participates, on both domestic and international levels, in the drafting of safety standards; cooperates closely with governmental, safety, health, and consumer organizations in the development and application of standards for the safe use of playthings.</p> <p>The industry's Voluntary Safety Standard ASTM F963-86 includes more than 100 separate testing and design specifications to assure that normal use and abuse of toys will not result in a hazard that could cause an injury.</p>
<b>Availability</b>	Distributed directly and through ANSI and ASTM
<b>Keywords</b>	toys; consumer products; safety;

#### **TRAFFIC AUDIT BUREAU**

Ken Sammon, President

114 E. 32nd Street  
New York, New York 10016  
(212) 213-9640

Founded: 1933

<b>Type of Organization</b>	Professional Society Standards Developer
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**Scope** Consists of advertisers, advertising agencies, and operators of outdoor advertising plants. Furtheres the joint interests of its membership and the general public.

**Standardization Activities** Establishes standard practices with respect to the circulation, evaluation, and visibility of outdoor advertising; supervises and directs practices in connection with the collection, recording, and authentication of traffic and other data related to outdoor advertising; and prepares and issues standardized factual statements of the circulation values of outdoor advertising plants.

**Availability** Distributed directly

**Keywords** advertising; communications;

#### TRAILER HITCH MANUFACTURERS ASSOCIATION

Lawrence F. Henneberger, Executive Secretary and Counsel

1050 Connecticut Avenue, NW, Suite 500  
Washington, DC 20036  
(202) 857-6087

Founded: 1967

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Scope** Represents domestic manufacturers of trailer hitches and tow bars. Reports on and represents its membership concerning all matters of federal, state, and local interest with emphasis on safety regulation.

**Standardization Activities** Works closely with the Recreation Vehicle Industry Association and state motor vehicle organizations; supports state adoption of Vehicle Equipment Safety Commission Regulation V-5 for trailer hitches.

**Keywords** trailer hitch; tow bar; recreation; transportation;

#### TRUCK MIXER MANUFACTURERS BUREAU

Raymond F. Wisniewski, Jr., Secretary

900 Spring Street  
Silver Spring, Maryland 20910  
(301) 587-1400

Founded: 1945

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Certification</b>	Rating plates are affixed to all mixers meeting Bureau standards.
<b>Scope</b>	Represents manufacturers of concrete truck mixers.
<b>Standardization Activities</b>	Participates with government in the development and interpretation of specifications. Cooperates with the National Ready Mixed Concrete Association to develop standards. Standards cover truck mixers and agitators, whether truck or trailer mounted. Publishes Truck Mixer and Agitator Standards.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	concrete; concrete mixers;

#### TRUCK TRAILER MANUFACTURERS ASSOCIATION

	Donald W. Vierimaa, Vice President  1020 Princess Street Alexandria, Virginia 22314 (703) 549-3010  Founded: 1941
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Developed 59 recommended practices and 44 technical bulletins since 1961. 90 trailer manufacturing companies participate in development None processed through ANSI Draft recommended practices and technical bulletins available for review
<b>Standards Designation</b>	Recommended Practices and Technical Bulletins are by Number
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Scope</b>	An international trade association that represents the manufacturers of truck pulled trailers, cargo tanks, and intermodal containers, and manufacturers supplying components and parts to the trailer, tank, and container manufacturing industry.

**Standardization  
Activities**

Recommended practices are issued as suggested solutions to design, specification, and manufacture or tests of truck trailers and their components. Examples include trailer hitches and connections, air brake system tests, lighting devices, and weld finishes for tank vehicles.

Technical bulletins are issued to aid carriers or shippers in the operation of truck trailers or to improve the serviceability or use. Examples include brake performance test methods, tank venting, corrosion prevention, and electrical wiring.

Works with organizations such as ANSI, ISO, the American Trucking Association, the Association of American Railroads, the Society of Automotive Engineers, American Petroleum Institute, U.S. Department of Agriculture, U.S. Environmental Protection Agency, National Fire Protection Association, U.S. Department of Labor (OSHA), and others.

**Availability**

Distributed directly

**Keywords**

trailers; containers; tractor-trailers; transportation; cargo tanks;

**TRUSS PLATE INSTITUTE**

Charles B. Goehring, Managing Director

583 D'Onofrio Drive, Suite 200  
Madison, Wisconsin 53719  
(608) 833-5900

Founded: 1961

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

15 members active in standards development

**Standards  
Designations**

TPI, PCT, DSB, and QST prefixes

**Certification**

Provides an in-plant inspection service for manufacturers of metal plate connected wood trusses in accordance with Uniform Building Code (UBC) Standards under its Quality Control Inspection Program. TPI is recognized as an approved quality control agency for the inspection of metal plate connected wood trusses.



<b>Scope</b>	A nonprofit organization of manufacturers engaged in the production and distribution of metal connector plates for the trussed rafter industry; maintains the industry on a sound engineering basis by establishing methods of design and construction for wood trussed rafters using metal connector plates; provides test and research data for public dissemination; assists in the development of proper building code regulations; and disseminates information relative to the proper use of wood trussed rafters in the interest of safety and public welfare.
<b>Standardization Activities</b>	Develops design standards for metal plate connected wood trusses, metal plate connected parallel chord wood trusses, and temporary bracing of metal plate connected wood trusses. Publishes a quality control standard, and a commentary on handling, installation and bracing of wood trusses. Promotes product acceptance with code authorities. Also publishes design criteria.
<b>Availability</b>	Distributed directly
<b>Keywords</b>	wood trusses; wood rafters; wood products; building; metal connector plates; truss plates;

#### **TUBE COUNCIL OF NORTH AMERICA**

	Ted Klein, Executive Secretary
	740 Broadway, Suite 903 New York, New York 10003 (212) 477-9007
	Founded: 1957
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Published six standards
<b>Scope</b>	Manufacturers of collapsible metal tubes (e.g., toothpaste tubes), united to further the use of their products.
<b>Standardization Activities</b>	Publishes standards for nomenclature; standard neck and orifice sizes, American Standard thread form; modified buttress thread form; thermoset cap sizes; thermoplastic cap sizes; standard length, wall, and shoulder sizes.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	The Metal Tube Packaging Council of North America

**Keywords** tubes; packaging; consumer products;

**TUBULAR EXCHANGER MANUFACTURERS ASSOCIATION**

Richard C. Byrne, Executive Director

25 North Broadway  
Tarrytown, New York 10591  
(914) 332-0040

Founded: 1939

**Type of Organization** Trade Association  
Standards Developer

**Scope** Manufacturers of shell and tube heat transfer equipment; establishes and maintains high-level design and manufacturing standards. Sponsors research programs and provides a forum for exchange of technical information.

**Standardization Activities** TEMA standards are prepared in 10 sections which clarify and expand material, thermal, and physical properties of fluids and other information related to various classes of exchangers. Three TEMA Engineering Software programs are also available.

**Availability** Distributed directly

**Keywords** heat transfer; industrial equipment;

**TUBULAR RIVET AND MACHINE INSTITUTE**

Richard C. Byrne, Administrator

25 N. Broadway  
Tarrytown, New York 10591  
(915) 332-0040

**Type of Organization** Trade Association  
Standards Developer

**Scope** Represents U.S. companies engaged in the manufacture of rivets and rivet setting machines in technological areas.

**Standardization Activities** Works within the voluntary standards system to coordinate industry standards activities and acts as an industry voice. Ten members active in standards development. Distributes Metric Dimensional Standards for General Semi-Tubular Rivets. Is represented on industry standards and ANSI committees.

<b>Availability</b>	Distributed directly
<b>Formerly</b>	Tubular and Split Rivet Council
<b>Keywords</b>	rivets; fasteners; manufacturing;

**ULTRASONIC INDUSTRY ASSOCIATION**

Bette Katz, Executive Director

c/o Penn Michael Management  
P.O. Box 5126  
Old Bridge, New Jersey 08857  
(201) 679-9666

Founded: 1956

<b>Type of Organization</b>	Trade Association Standards Developer
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<b>Scope</b>	Manufacturers of ultrasonic equipment and component parts. Promotes the industry; cooperates with government on legislation; researches the use and safety of products.
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<b>Standardization Activities</b>	Developed definitions covering basic industry terminology designed to promote a common language and facilitate understanding between manufacturers and users. Developed a standard rating covering ultrasonic generators.
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Cooperates with the American National Standards Institute, the Institute of Electrical and Electronics Engineers, National Safety Foundation, Acoustical Society of America, National Electrical Manufacturers Association, and American Society for Testing and Materials. Provides assistance to various government agencies such as the Departments of the Navy and Air Force, and maintains standardizing liaison with other government agencies, such as the Federal Communications Commission.

<b>Availability</b>	Distributed directly
<b>Formerly</b>	Ultrasonic Manufacturers Association (1973)
<b>Keywords</b>	ultrasonic equipment; industrial equipment;



**UNDERWRITERS LABORATORIES, INC.**

Frances M. Newell, Managing Engineer, Standards  
Department

333 Pfingsten Road  
Northbrook, Illinois 60062  
(312) 272-8800  
Washington, DC  
(202) 638-2323

Telex: 201227  
Fax: (708) 272-8129

Founded: 1894

Standards Staff: 51

**Type of  
Organization**

Independent, Not-for-Profit Corporation Testing for  
Public Safety  
Developer of Standards for Safety

**Standards  
Development**

Standards developer since 1903  
570 published and 42 proposed Standards for Safety  
431 ANSI approved, 151 being processed through ANSI  
procedures  
Activities open to participation by interested parties

**Standards  
Designation**

UL Standards for Safety

**Government  
Adoption**

The Department of Defense has adopted more than 100  
Underwriters Laboratories Inc. (UL) Standards for  
Safety. In addition, other government agencies,  
including the General Services Administration and the  
United States Coast Guard, either require compliance  
with UL Standards for Safety or accept UL certification  
as constituting compliance with applicable regulations.

**Representation**

UL personnel contribute to standards and code-making  
activities by serving as members of over 500 committees  
of national and international organizations including  
ANSI, NFPA, ASTM, IEC, ISO, and others.

**Certification**

UL offers five services by which products or systems  
may be identified as complying with the requirements of  
UL or other organizations or regulating agencies, or as  
otherwise having been investigated by UL in accordance  
with specified methods or procedures. These services,  
their applicability, and the method of identification  
are:

1. Listing -- Products that have been investigated with  
respect to reasonable foreseeable risks to life and  
property and for which the risks have been reduced  
to an acceptable degree. Products are identified by  
the UL Listing Mark.

2. **Classifications** -- Products that have been investigated with respect to one or more of the following: (a) specific risks only, (b) performance under specified conditions, (c) regulatory codes, or (d) standards of organizations other than UL, including international standards. This service is generally applicable to industrial and commercial products. Products are identified by the UL Classification Marking.
3. **Recognition** -- Products that have only been investigated for use as components of equipment Listed or Classified by UL. Products are identified by the manufacturer's identification and a model number or the equivalent. Products may also be identified by the UL Recognized Component Mark.
4. **Certificate** -- Products that comprise a field installed system investigated at a specific location, or specific quantities of certain products, under such conditions that it is impractical to apply the Listing Mark or Classification Mark to each product. Products or systems are identified by a Certificate issued by the manufacturer or installer under UL's authorization.
5. **Registered Firm** -- Facility Quality Assurance Systems, by means of assessment and subsequent surveillance, providing assurance of a firm's capability of working to their specifications. Facilities so registered are permitted to use the Registered Firm Mark in advertising, but not in connection with any product.

As an integral part of each of these five services, UL maintains a Follow-Up Service under which UL conducts factory inspections and counterchecks of manufacturers' inspection and test procedures for determining continued compliance with the requirements under which the product or system was initially investigated.

In cooperation with EIA, UL serves as the National Supervising Inspectorate (NSI) of the IEC Quality Assessment System for Electronics Components (IECQ-System) for the United States. The IECQ-System is designed to encourage international trade in electronic components. It is intended that components certified by an approved manufacturer in one participating country be acceptable to users in other participating countries without further testing. The NSI is the national organization responsible for the surveillance of all quality assessment necessary for the system, including

these responsibilities: approval of manufacturers, independent distributors, and independent laboratories; supervision of the Certificate of Conformity; and audit testing of approved components.

### **Secretariats**

ANSI C101.1, Leakage Current for Electrical Appliances  
IEC/SC 31A, Flameproof Enclosures  
IEC/SC 31H, Apparatus for Use in the Presence of Ignitable Dust  
IEC/TC 61, Safety of Household and Similar Electrical Appliances  
IEC/TC 61D, Appliances for Air Conditioning for Household and Similar Purposes  
IEC/TC 61/WG9, Temperature limits for Supplementary and Reinforced Insulation Under Abnormal Operation Conditions  
IEC/TC 74, Safety of Data Processing Equipment and Office Machines

### **Scope**

Objectives are to evaluate products and systems or to conduct scientific investigations, studies, experiments, and tests to determine the relation of various materials, devices, construction, and methods to life, fire, and casualty hazards; to ascertain, define, and publish standards, classifications, and specifications for materials, devices, constructions, and methods affecting such hazards; and to provide other information tending to reduce or prevent damage from fire, crime, and casualty.

### **Standardization Activities**

The primary business of UL is product safety through Facility Registration Product Certification, and UL's Standards for Safety play an important part of this process of investigation, identification, and audit. Each of UL's engineering departments has prepared standards for use in this work. A catalog listing all available UL Standards for Safety is published twice yearly. Members of UL's five Engineering Councils assist and advise UL engineers in an effort to provide safety requirements that reflect realistic considerations of field experience and practical judgements, as well as sound engineering technology. UL Engineering Councils currently serve in the areas of Burglary Protection, Casualty, Electrical, Fire, and Marine.

The Consumer Advisory Council members advise UL in establishing levels of safety for consumer products. They also provide additional user field experience and information in the area of product safety and assist in educating the general public in the limitations and safer use of specific consumer products.

UL Standards for Safety are developed under procedures that provide for participation, review, and comment



from industry, government, insurance groups, consumers, other interested parties, and the general public. These procedures take into consideration the needs and opinions of a wide variety of interests concerned with the subject of the standard and afford due process to all those who will be affected by the standard.

UL's Technical Assistance to Exporters (TATE) program offers help to exporters in getting information about international and foreign national standards and information about foreign laboratories and certification programs. UL will investigate a product in accordance with a published foreign national standard or an international standard. UL-generated data may then be submitted to a foreign test station for considerations as a part of their investigation. UL also maintains a Technical Information Center (TIC) for providing access to information about standards, regulations, and submission procedures of foreign countries. The Technical Information Center also includes selected translations of foreign specifications.

**Availability**

Distributed directly and through ANSI, Global Engineering Documents, the British Standards Association, and the Standards Association of Australia. Translations of some UL Standards for Safety into languages other than English are available from the following organizations: French -- AFNOR; Japanese -- JMI Institute and the Japan Standards Association; and Korean -- Korea Institute of Machinery and Metals. UL Standards for Safety are available in three microform formats from IHS and NSA.

**Formerly**

Underwriters Electrical Bureau (1901)

**Keywords**

safety; certification; testing; burglary; casualty; marine; electrical equipment; fire protection; recreation; general; industrial equipment; consumer products; air handling; plastics; commercial equipment; building material;

**UNITED LIGHTNING PROTECTION ASSOCIATION**

Nina Lancaster, Secretary

2 Richey Avenue  
Collingswood, New Jersey 08107  
(609) 854-7005

Founded: 1935

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	100 members active in lightning protection activities of standards developers such as UL and NFPA.
<b>Scope</b>	Provides reliable educational materials on the hazards of lightning and what constitutes proper lightning protection. Members must conform to the highest standards of lightning protection systems, engineering, installation, and service to maintain membership.
<b>Standardization Activities</b>	Members serve on numerous committees and in other key roles in helping to establish various standards and codes, such as the Lightning Protection Code of the National Fire Protection Association and the Lightning Protection Installation Requirements Code of Underwriters Laboratories. Consulted frequently by building supply manufacturers, insurance firms, safety groups, and power companies to advise on potential hazards and proper lightning protection.
<b>Keywords</b>	lightning protection; building; safety;

**UNITED SHIPOWNERS OF AMERICA**

William P. Verdon, President

1627 K Street, NW  
Suite 1200  
Washington, DC 20006  
(202) 466-5388

Telex: TWX 7108221163

Founded: 1977

Standards Staff: 1

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	ANSI MH5 ISO/TC 104
<b>Scope</b>	Supports development of a statutory and regulatory framework within which all ocean carriers in the international trade of the United States will compete on an equal basis and the promotion of U.S. flag shipping through close cooperation with shippers, government agencies, and various international organizations, such as the International Chamber of Shipping and the Maritime Consultative Organization.
<b>Standardization Activities</b>	Participates in domestic and international standards development involving multi-modal cargo containers and related equipment. Representatives are active on ANSI

committee MH5, U.S. TAG to ISO/TC 104, American Bureau of Shipping, and other relevant organizations.

**Formerly**

Committee of American Steamship Lines (1952)  
American Institute of Merchant Shipping (1969)  
Council of American-Flag Ship Operators (1978)

**Keywords**

transportation; ships; containers; intermodal;

**UNITED SKI INDUSTRIES ASSOCIATION**

Chris Stoddard, Committee Administrator

20 Maple Street  
P.O. Box 2883  
Springfield, Massachusetts 01101  
(413) 781-4732 Fax: (413) 781-6105

Founded: 1989 Standards Staff: 2

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1963

**Government  
Adoption**

U.S. Department of Agriculture Forest Service, and  
states where skiing exists.

**Secretariat**

ANSI B77.1

**Scope**

A trade association of ski area operators, manufacturers, and suppliers of ski equipment. Twelve hundred members located in all states and several foreign countries. Aims are to promote skiing and safety in skiing, to protect natural resources in meeting the needs of the skiing public and ski area operators, and to ensure legitimate interests of ski area operators.

**Standardization  
Activities**

Maintains committee composed of operators, users, authorities having jurisdiction, designers, and manufacturers of aerial tramways. Developed American National Standard B77.1, Safety Requirements for Passenger Tramways and Lifts, Surface Lifts, and Tows. Promotes this safety standard for the ski lift industry, used by ski lift manufacturers, ski area personnel, ski area insurance programs, and state and federal authorities having jurisdiction.

**Availability**

Distributed directly and through ANSI

**Keywords**

aerial tramways; cable cars; cableways; ski lifts;  
sports; skiing; recreation;



## UNITED STATES COUNCIL FOR INTERNATIONAL BUSINESS

Abraham Katz, President

1212 Avenue of the Americas  
New York, New York 10036  
(212) 354-4480

Telex: US COUNCIL 14-8361 NYH  
Fax: (212) 575-0327

Founded: 1945

<b>Type of Organization</b>	Trade Association Works through global business organizations to develop international standards
<b>Representation</b>	U.S. National Committee of the International Chamber of Commerce (ICC) U.S. Committee of the International Organization of Employers (IOE)
<b>Secretariats</b>	U.S. Secretariat for the Business and Industry Advisory Committee (USA-BIAC) to the Organization for Economic Cooperation and Development (OECD); U.S. Secretariat for the U.S. Coordinating Group on European Community Affairs (USICG)
<b>Scope</b>	A trade association of 300 U.S. based multinational corporations. Represents its members by keeping them informed of international business development having a major impact on their operations.
<b>Standardization Activities</b>	Works with ICC to harmonize trade practices and terminology resulting in Universal Standards and the Uniform Customs and Practice for Documentary Credits. Serves as the business voice in the International Labor Organization which is active in establishing international labor standards in the form of conventions, which are binding on states which ratify them, and nonbinding recommendations. Works with OECD to provide models for national legislation, such as tax provisions, and voluntary standards of behavior for multinationals.
<b>Keywords</b>	labor standards; social welfare; business; trade facilitation standards;

## UNITED STATES CUTTING TOOL INSTITUTE

Charles M. Stockinger, Secretary/Treasurer

1230 Keith Building  
Cleveland, Ohio 44115-2180  
(216) 241-7333

Founded: 1988

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	ASME TC 6/Milling Cutter Bodies
<b>Scope</b>	A trade association of companies which produce cutting tools. Aims to reduce manufacturing costs through standardization and eliminate waste, while encouraging competition. Encourages advances in engineering and manufacturing techniques, research and safety in the industry. function as an industry voice in matters of business and national concern.
<b>Standardization Activities</b>	Promotes the standardization of sizes, dimensions and tolerances in cooperation with ANSI, ASME and other national and international engineering organizations. Actively participates in technical and advisory committees of major national standardizing bodies. Promulgates American National Standards on twist drills, reamers, taps and milling cutters which form the basis of federal specifications and individual company standards, as well as reflecting current United states industry practice in the formulation of ISO standards. Publishes the Metal Cutting Tool Handbook and pamphlets such as Drilled Holes for Tapping, Tolerances for Twist Drills and Reamers, and Standards and Dimensions for Taps and Dies.
<b>Formerly</b>	Cutting Tool Manufacturers of America; Metal Cutting Tool Institute.
<b>Keywords</b>	cutting tools; metal; manufacturing;

#### UNITED STATES GOLF ASSOCIATION

David B. Fay, Executive Director

Golf House  
P.O. Box 708  
Far Hills, New Jersey 07931-0708  
(201) 234-2300

Founded: 1894

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Scope</b>	Membership consists of regularly organized golf clubs and golf courses. Serves as a governing body for golf in the United States. Promotes scientific work in green

keeping and turf management. Provides data on rules, handicapping, tournament procedure, and other related topics.

**Standardization  
Activities**

Developed standards for golf balls and golf clubs. In Rules of Golf, specifications concerning style and make of clubs, and size, weight, and velocity of golf balls are included. These specifications are applicable to equipment and balls used in connection with tournaments conducted by the association or under its rules.

**Availability**

Distributed directly

**Keywords**

golf; golf equipment; sports;

**UNITED STATES HIDE, SKIN AND LEATHER ASSOCIATION**  
**A division of the American Meat Institute**

Jerome J. Breiter, President

1700 N Moore Street, Suite 1600  
Arlington, Virginia 22209  
(703) 841-5485 Fax: (703) 841-9656

Founded: 1980

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

A national trade association representing the hide and skin trade. Members include meat packers, hide processors, brokers and dealers, and exporters. Organized to promote and improve relational and conditions in the hide industry. Maintains liaison with allied trades as well as the government.

**Standardization  
Activities**

Primarily concerned with developing a descriptive package to protect buyers and sellers of hides and skins. Standards describe the product and deal with delivery, trim, grading, weight loss in shipment, and tolerances with an emphasis on exporting.

**Availability**

Distributed directly

**Formerly**

National Hide Association  
American Association of Hides, Skins and Leather Traders

**Keywords**

animal hide; leather; materials;



## U.S. METRIC ASSOCIATION

Valerie Antoine, Executive Director

10245 Andasol Avenue  
Northridge, California 91325  
(818) 368-7443

Founded: 1916

Type of Organization	Professional Society Works through other organizations to develop standards
Representation	1,000 members participate in standards activities of the major standards developers.
Certification	USMA has a Certified Metrication Specialist (CMS) program that is administered by the USMA CMS Board. The CMS award is made after applicant passes a stringent examination.
Scope	A nonprofit organization representing 2,000 members from many industries. Provides metrication information to companies; provides consumer and educational services.
Standardization Activities	Involved primarily in promulgating correct SI metric usage in cooperation with ANSI, ASME, ANMC, NAS, and other societies in order to draft metric standards and help determine correct usage of metric units.
Keywords	metrics; metric conversion; education; general;

## UNITED STATES PHARMACOPEIAL CONVENTION

Jerome A. Halperin, Executive Director

12601 Twinbrook Parkway  
Rockville, Maryland 20852  
(301) 881-0666

Founded: 1820

Standards Staff: About three dozen scientists totally involved, not counting administrative support.

Type of Organization	Nonprofit Scientific Society Standards Developer
Standards Development	Standards developer since 1820 113 members of the General Committee of Revision plus about 500 persons in Expert Advisory Panels 1,250 USP Reference Standards 3,200 Articles available

1,000 under development  
None processed through ANSI  
Draft standards available for review

**Standards  
Designations**

USP, United States Pharmacopeia  
NF, National Formulary

**Government  
Adoptions**

The Food, Drug and Cosmetic Act makes USP and NF standards enforceable by the Food and Drug Administration. Comparable acts exist in most states. Canada and other countries recognize USP-NF in their laws and/or regulations.

**Certification**

USP is not a certifying agency. FDA is required by law to certify each batch of insulin against USP standards before manufacturers release it.

**Scope**

Recognized authorities in medicine, pharmacy, and allied sciences. Revises and publishes the U.S. Pharmacopeia (USP) and the National Formulary (NF), the legal compendia of drug standards. Maintains continuous current consensus of appropriate drug use information for health professionals and patients, published as USP D1.

**Standardization  
Activities**

Defines articles (i.e., drug substances, drug dosage forms, inactive ingredients, medical devices, and diagnostic agents); states standards for dietary supplements, strength, quality and purity; provides test methods to determine if articles meet standards; establishes packaging and labeling requirements. The elected volunteers of the Committee of Revision with the aid of Advisory Panels make the decisions. The employed staff coordinates these activities. Cooperates with the World Health Organization, the Japanese Pharmacopoeia, the British Pharmacopoeia, and the European Pharmacopoeia. Also with the Foods Chemicals Codex, National Committee on Clinical Laboratory Standards, American Chemical Society, and ASTM. Publishes, bimonthly, the Pharmacopeial Forum, which is the drug standards development journal.

**Availability**

Subscriptions to USPXX11-NFXV11 and to Pharmacopeial Forum are available directly, as are USP Reference Standards and USP D1 print and electronic publications.

**Keywords**

drugs; medical devices; diagnostic agents;  
pharmaceuticals; pharmacopeias; chemicals; medicines;  
medical; drug information; patient drug use  
information; reference standards;

## UNITED STATES TELEPHONE ASSOCIATION

Paul K. Hart Executive Director, Technical Disciplines

900 19th Street, NW, Suite 800  
Washington, DC 20006  
(202) 835-3100

Founded: 1897

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

Members participate on their own behalf in committees of the IEEE, EIA, and ANSI. In some cases the Association is represented directly.

**Secretariats**

Protection Engineers Group (PEG)

**Scope**

USTA is the association of the United States wireline telephone companies. Until 1983, membership of the Bell Companies was not permitted by the Association's by-laws and the fact that the Bell operating companies were part of AT&T. With divestiture the Association has dropped the word "independent" from its name and the seven regional telephone companies created after divestiture have joined the Association.

**Standardization  
Activities**

While not currently a standards developer the Association reserves the right to sponsor standardization activities which it may deem necessary. With formation of the Exchange Carriers Standards Association, USTA will likely support those efforts. The PEG secretariat will not be affected. The association and its members participate at the working group level of various standards developing organizations and provide the secretariat for the Protection Engineers Group which is a standards developer.

**Formerly**

United States Independent Telephone Association

**Keywords**

telephone; network; communications; transmission;

## U.S. TENNIS COURT AND TRACK BUILDERS ASSOCIATION

Carol T. Shaner, CAE, Executive Director

113 W. Franklin Street  
Baltimore, Maryland 21201  
(301) 752-3500

Founded: 1965



<b>Type of Organization</b>	Trade Association Standards Developer
<b>Certification</b>	The association has developed a voluntary Builder Certification Program. To become a certified builder, a member must pass a written examination that demonstrates a high level of knowledge of tennis court construction.
<b>Scope</b>	Represents tennis court and track builders in the United States and internationally. Members include builders of tennis courts, game courts, and running tracks; manufacturers of court and track surface materials, fencing, lighting systems, and court accessories; and professionals involved in the tennis and track industries.
<b>Standardization Activities</b>	<p>Developed Tennis Court and Running Track Guide Specifications. Maintains technical committees to draft and update specifications. Also publishes a maintenance and Repair Specification Guide for tennis courts and Lighting and Fencing Specifications.</p> <p>The latest publications program includes a series of technical data bulletins on tennis court dimensions (with metric equivalents), windscreens, and site investigation for tennis courts and tracks. The series also includes site preparation, earthwork drainage, base/court construction, guidelines for reconditioning fast-dry tennis courts, tennis court orientation, and soil sterilization; also covers color finish systems for tennis courts and resurfacing of asphalt courts. A track data series has also been initiated. The first bulletin covers the conversion of 440 yard tracks to 400 meters. Publishes a 400 meter even track markings layout in cooperation with the National Federation of State High Schools Association.</p> <p>Participates in liaison committees with the U.S. Tennis Association, National Tennis Association, National Sporting Goods Association, Illuminating Engineers Society, National Federation of State High Schools Association, and the U.S. Track &amp; Field Federation.</p>
<b>Keywords</b>	tennis courts; game courts; running tracks; sports;

**UNITED STATES TESTING COMPANY**

Diane Fuller, Vice President

1415 Park Avenue  
Hoboken, New Jersey 07030  
(201) 792-2400

Founded: 1880

**Type of  
Organization**

Independent Test Laboratory  
Standards Developer

**Certification**

Conducts testing for certification and labeling to assure products meet specified standards.

**Scope**

An independent commercial laboratory engaged in product testing for quality assurance.

**Standardization  
Activities**

Develops standard test procedures including instrumentation for consumer appliances, toys, home entertainment equipment, garden and lawn equipment, recreational goods, textiles, chemicals, cosmetics, drugs, paint, construction materials, plastics, paper, metals, and foods. Cooperates with ASTM and ANSI. Assists government agencies, manufacturers, and trade associations by product testing to ascertain whether specifications and standards are met and to establish national standards.

**Formerly**

Also known as Nationwide Consumer Testing Institute, Inc.

**Keywords**

quality assurance; testing; consumer products; materials; food; textiles;

**VACUUM CLEANER MANUFACTURERS ASSOCIATION**

Clifford J. Wood, Executive Secretary

P.O. Box 2642  
North Canton, Ohio 44720  
(216) 499-5998

Founded: 1913

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Scope**

Formed to promote the common business interests of vacuum cleaner manufacturers. Services include government affairs, industry statistics, engineering/technical and publicity.

**Standardization  
Activities**

Individual member companies of the association, along with general interest representatives, develop United States vacuum cleaner standards through the ASTM F-11 Vacuum Cleaner Committee. Individual member companies also work with the Canadian Standards Association. Maintains a representative on the vacuum

cleaner technical committee of the International Electrotechnical Committee involved in the development of international standards.

**Keywords** vacuum cleaners; floor care; appliances; consumer products;

#### **VALVE MANUFACTURERS ASSOCIATION OF AMERICA**

Malcolm E. O'Hagan, President

1050 17th Street, NW, Suite 701  
Washington, DC 20036  
(202) 331-8105

Founded: 1938

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representation** Members active in MSSVFI, API, AWWA, SME, ISA, NACE, ANSI, and ISO

**Scope** Represents the flow control industry. Members comprise 85 percent of U.S. production of industrial valves and actuators used in oil and gas, power, chemical, construction, water, and process industries.

**Standardization Activities** Although not a standards making body, VMA is a member of ANSI and a strong advocate of U.S. and international standards. Members of the industry are active in a variety of standards activities. VMA is represented on ASME B-16, ISO/TC 153, AWWA C504, and develops standards policy through its Technical Committee and Product Committees.

**Keywords** valves; actuators; flow control; industrial equipment;

#### **VARIABLE RESISTIVE COMPONENTS INSTITUTE**

Stan J. Kukawka, Executive Director

P.O. Box 1070  
Vista, California 92083  
(619) 727-3011 Fax: (619) 727-6555

Founded: 1960 Standards Staff: 1

**Type of Organization** Trade Association  
Standards Developer



<b>Standards Development</b>	Standards developer since 1960 35 member companies participating in standards activities 5 active standards Draft standards available to VRCI members and applicable organizations
<b>Standards Designation</b>	VRCI and ANSI prefixes
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Scope</b>	An international trade association representing manufacturers and users of variable resistive devices such as precision potentiometers, trimmers, and panel potentiometers.
<b>Standardization Activities</b>	Has made significant contributions to the field of standardization and the improvement of quality of variable voltage or resistive devices used in consumer, industrial, and military type applications. Standards cover wirewound and non-wirewound precision, trimming, and industrial potentiometers, potentiometer mounted switches, and surface mount trimming potentiometers.
<b>Availability</b>	Distributed directly and through ANSI
<b>Keywords</b>	potentiometers; resistive devices; electronic components; trimmers;

#### VINYL SIDING INSTITUTE

See SOCIETY OF THE PLASTICS INDUSTRY

#### VINYL WINDOW AND DOOR INSTITUTE

See SOCIETY OF THE PLASTICS INDUSTRY

#### WATER POLLUTION CONTROL FEDERATION

Quincalee Brown, Ph.D., CAE, Director

601 Wythe Street  
Alexandria, Virginia 22314-1994  
(703) 684-2400 Fax: (703) 684-2492

Founded: 1928

<b>Type of Organization</b>	Technical Professional Society Works through other organizations to develop standards
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<b>Scope</b>	Federation of 65 state, regional, and foreign associations and technical societies. Advances fundamental and practical knowledge of the water environment with emphasis on the technology, design, construction, operation, and management of water quality control systems and facilities. Seeks to: disseminate technical knowledge and information through publications and conferences; promote good public relations and sound regulations aimed toward proper water quality improvements; and improve the status of those working in this field.
<b>Standardization Activities</b>	In cooperation with the American Public Health Association and the American Water Works Association, produces Standard Methods for the Examination of Water and Wastewater. Develops and publishes education, training, design and operation and maintenance materials on: wastewater collection; wastewater treatment; sampling and testing; safety; hazardous waste; microbiology; disinfection; wetlands; air pollution; industrial wastes; financing; sludge processing and handling; regulations.
<b>Keywords</b>	environment; wastewater; pollution; water pollution; industrial wastes; hazardous wastes; air pollution; solid waste; safety;

#### WATER QUALITY ASSOCIATION

Joseph F. Harrison, P.E., Technical Director

4151 Naperville Road  
Lisle, Illinois 60532  
(708) 505-0160

Founded: 1948

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Designations</b>	S-100 S-200
<b>Certification</b>	Certifies water softeners and filters complying with Association standards. Sponsors voluntary certification programs for water treatment specialists and water treatment equipment installers.
<b>Scope</b>	A trade association of water conditioning equipment manufacturers and suppliers to the water conditioning industry. Conducts a national public relations program, and serves as the industry's liaison with the public, private, and government sectors. Fosters the

further development of equipment, products, and services in the industry.

**Standardization  
Activities**

Developed two equipment standards, S-100 for Household, Commercial and Portable Exchange Water Softeners, and S-200 for Household and Commercial Water Filters. A testing program for both standards is conducted by an independent testing laboratory, and certification is made through the association following laboratory validation. These standards have national application, and the voluntary testing program is open to manufacturers of water softeners and water filters. In addition to intra-industry promotion of the use of the equipment validation program, the association uses its public relations channels to inform consumers of the integrity of certified equipment. S-100 and S-200 have been developed through consultation with the National Institute of Standards and Technology; U.S. Department of Commerce; Federal Housing Administration; and other government agencies, as well as quasi-public and private organizations concerned with equipment standards. The association is currently developing standards for reverse osmosis and chemical feeding equipment.

**Availability**

Distributed directly

**Formerly**

Water Conditioning Foundation (1974)

**Keywords**

consumer products; industrial equipment; water quality; water treatment;

**WATER SYSTEMS COUNCIL**

Charles G. Stolberg, Executive Director

600 S. Federal Street, Suite 400  
Chicago, Illinois 60605  
(312) 922-6222

Founded: 1932

**Type of  
Organization**

Technical Society  
Standards Developer

**Standards  
Development**

6 active standards

**Scope**

Represents and serves leading manufacturers of domestic and farm water systems equipment.



<b>Standardization Activities</b>	Develops Testing and Rating Standards which are established in the public interest, and are designed to supply the purchaser and user of automatic, electric water systems with accurate performance data and to assist in the determination of proper application and selection of this equipment. The standards cover shallow well water system pumps; deep well water system pumps; deep well submersible pump motor standards; and hydropneumatic tank volume standards.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	National Association of Domestic and Farm Pump Manufacturers
<b>Keywords</b>	pumps; motors; water systems; wells; building;

**WEST COAST LUMBER INSPECTION BUREAU**

Ray L. Todd, Executive Vice President

P.O. Box 23145  
Portland, Oregon 97223  
(503) 639-0651

Founded: 1911

Standards Staff: 2

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Develops lumber grading rules Drafts not available for review
<b>Standards Designation</b>	West Coast Lumber - Standard Grading Rules, No. 16
<b>Certification</b>	Provides official grade stamps to mark lumber conforming to West Coast Grading Rules.
<b>Scope</b>	An industry owned, nonprofit corporation that provides lumber quality control services at its approximate cost. Serves the area west of the summit region of the Cascade Mountains in the States of Washington and Oregon and the entire State of California. Services available to any producer, user, distributor, or dealer handling West Coast lumber products. Maintains uniform standards of lumber grading and manufacture, promotes the use of grade stamped lumber as an assurance to the buyer, seller, and consumer that the interests of each are fully protected, and assists in the efficient use of West Coast lumber products.

**Standardization  
Activities**

One of the three major rules writing agencies in the United States, in addition to the Western Wood Products Association and Southern Pine Inspection Bureau. Responsible for the principal part of all the quality control programs for softwood lumber production in the United States. Supervises or grades four and one-half to six billion feet of lumber per year, which is the bulk of all production west of the Cascades.

Bureau activities include the publication and distribution of West Coast Grading Rules, supervision of the grading manufacturing practices of subscriber plants, grade stamping of West Coast lumber with official Bureau stamps, certificate inspection of lumber shipments, reinspection of lumber in dispute at destination, and assistance to specification agencies, buyers and consumers of West Coast products. Participates in ASTM and Department of Commerce Voluntary Product Standard Programs.

**Availability**

Distributed directly

**Formerly**

West Coast Lumbermen's Association

**Keywords**

wood products; grading rules; inspection; lumber; building;

**WESTERN WOOD PRODUCTS ASSOCIATION**

Howard A. Roberts, President

Yeon Building  
522 SW Fifth Avenue  
Portland, Oregon 97204-2122  
(503) 224-3930

**Type of  
Organization**

Founded: 1964 (predecessors early 1900)  
Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since early 1900's  
Prepared under the umbrella of the National Institute of Standards and Technology Voluntary Product Standard PS 20-70 and the American Lumber Standards Committee.

**Standards  
Designation**

Western Lumber Grading Rules  
Machine Stress-Rated Western Lumber C/QC Procedures 102.86  
Glued Products C/QC Procedures 101.86  
North American Export Standard for MSR Lumber

<b>Government Adoption</b>	All building code writing and purchasing agencies (federal and state and local) accept lumber graded pursuant to WWPA grading rules. Additionally, WWPA rules are accepted world wide.
<b>Certification</b>	WWPA and its Western Lumber Grading Rules are approved by the Board of Review of the American Lumber Standards Committee. WWPA provides member companies with grade stamps to mark lumber graded under Association rules and supervision. A symbol indicates that the piece is graded under WWPA rules and the provisions of NIST Voluntary Products Standard PS 20-70.
<b>Scope</b>	WWPA consists of member companies throughout the 12 contiguous Western states. WWPA maintains a lumber grade inspection bureau to assure grading standards on a uniform basis. WWPS provides promotion, advertising, technical, safety, export and statistical services; promotes forest conservation.
<b>Standardization Activities</b>	Writes rules for Western lumber that conform to the National Institute of Standards and Technology Voluntary Product Standard PS 20-70, American Softwood Lumber Standard. Also writes rules for machine stress-rated lumber and glued lumber products in accordance with PS 20-70. Supervises member company grading procedures and practices through periodic sampling inspections of company graded lumber. Actively involved in writing and reviewing standards approved by the American Society for Testing and Materials (ASTM) and CEN Standards (European Community for Standardization).
<b>Availability</b>	Sold directly
<b>Keywords</b>	wood products; lumber; grading rules; inspection; building; machine stress-rated; finger joint;

#### WIRE REINFORCEMENT INSTITUTE

	Milton R. Sees, President
	1760 Reston Parkway, Suite 403 Reston, Virginia 22070 (703) 709-9207
	Founded: 1930
<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	ASTM A-1, C-13



<b>Scope</b>	An association of producers of welded wire fabric, wire reinforcement, and wire products for the reinforcement of concrete and other construction materials. Purpose is to advance industry through scientific research, educational activities, engineering, product development, and general construction technology.
<b>Standardization Activities</b>	Codes and Standards Committee works through ASTM to develop specifications for wire and wire welded fabric. Makes recommendations to ASTM Committee A-1 on steel and C-13 on concrete pipe.
<b>Keywords</b>	reinforcement; concrete; wire fabric; materials; construction;

#### WOOD AND SYNTHETIC FLOORING INSTITUTE

	Patricia H. Keating, Executive Vice President
	4415 W. Harrison Street, Suite 242-C Hillside, Illinois 60612 (312) 449-2993
	Founded: 1954
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	14 active standards
<b>Scope</b>	Comprised of flooring contractors throughout the United States. Represents the industry in matters of interest to its membership.
<b>Standardization Activities</b>	Publishes standards for all types of floors and floor surfaces. Develops programs for estimating of flooring installations and investigating fire safety of synthetic surfaces. Operates a continuing program of updating specifications.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Wood Flooring Institute (1970)
<b>Keywords</b>	flooring; safety; wood products; building;

## WOOD HEATING ALLIANCE

Gary T. Satterfield, Technical Director

1101 Connecticut Avenue, NW, Suite 700  
Washington, DC 20036  
(202) 857-1181

Founded: 1974

**Type of  
Organization**

Trade Association  
Standards Developer

**Certification**

The Alliance maintains a certification program for wood heater performance and accredits laboratories to run tests according to Alliance standards.

**Scope**

A national trade association for the solid fuel (wood and coal) home heating industry. Members include manufacturers, distributors, retailers, laboratories, manufacturers representatives, and chimney sweeps. Represents members in government affairs, code and technical areas. Services include statistical reports, trade information, newsletters, and conferences.

**Standardization  
Activities**

Concentrates on standardizing methods to measure the heating performance of fireplaces, wood stoves, and fireplace inserts.

**Availability**

Distributed directly

**Formerly**

Fireplace Institute  
Wood Energy Institute

**Keywords**

wood; solid fuel; heating; fireplaces; wood stoves;

## WOOD MACHINERY MANUFACTURERS OF AMERICA

Don White, Executive Vice President

1900 Arch Street  
Philadelphia, Pennsylvania 19103  
(215) 564-3484

Founded: 1899

Standards Staff: 1

**Type of  
Organization**

Trade Association  
Standards Developer

**Secretariats**

American National Standards Committee 01

<b>Scope</b>	110 manufacturers of machinery and equipment used in the production of lumber, veneer, millwork, and other wood products, but not including hand portable tools and equipment. Serves the industry by providing a forum to address technical and business issues and improve markets for U.S. made machinery.
<b>Standardization Activities</b>	Develops standards that enhance the safety and operability of woodworking machinery. Current publications include the widely recognized Noise Test Code and the Cutting Tool Safety Guidelines. Resources have been applied through ANSI to develop and maintain the voluntary consensus standard Safety Requirements for Woodworking Machinery, ANSI O1.1, which defines standards for safe installation, operation, and maintenance of woodworking machinery and accessory equipment.
<b>Availability</b>	Distributed directly
<b>Formerly</b>	Woodworking Machinery Manufacturers of America
<b>Keywords</b>	woodworking machinery; noise; safety;

#### WOOD MOULDING AND MILLWORK PRODUCERS

Bernard J. Tomasko, Executive Vice President

P.O. Box 25278  
1730 Southwest Skyline  
Portland, Oregon 97225  
(503) 292-9288

Founded: 1963

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	7 active standards None processed through ANSI
<b>Standards Designation</b>	WM prefix
<b>Scope</b>	Manufacturers of wood moulding and millwork. Provides promotion, standardization, and marketing information services.
<b>Standardization Activities</b>	Standards are initiated through a standing committee and administered by the association staff. Available standards include the WM/Series Moulding Patterns catalog of accurate, full scale renderings of the most popular wood moulding profiles used nationwide. This may be used as a standard basis for



all U.S. moulding producers. Included in the current catalog are grading rules for standard mouldings and finger joint and priming standards.

Other available standards include: Industry Standard WM 1-79, Wood Interior Door Jambs and Frames; WM 2-82, Vinyl Wrapped Interior Moulding and Millwork Products standard; WM 3-79, Exterior Wood Door Frames; WM 4-85, Wood Moulding Requirements; WM 5-81, Standard Certified Non-Structural Laminated or Finger Jointed Wood; and WM 8-89, Industry Standard 20-Minute Fire-Rated Wood Door Frames.

**Availability** Distributed directly and through members

**Keywords** wood products; moulding; millwork; grading rules; lumber; building;

#### WOODWORK INSTITUTE OF CALIFORNIA

Bernard B. Barber, Jr., Executive Secretary

P.O. Box 11428  
1833 Broadway  
Fresno, California 93773  
(209) 233-9035 Fax: (209) 237-7304

Founded: 1951 Standards Staff: 5

**Type of Organization** Trade Association  
Standards Developer

**Certification** The W.I.C. has established a Certification Licensing Procedure available to firms in California and Nevada.

**Scope** A statewide trade association in California and Nevada of independent and competing producers of millwork and allied products, the particular purpose of which is the development and dissemination of information relative to uses, advantages, and utility of wood products.

**Standardization Activities** Standards have been developed for materials and methods of fabrication for all types of architectural woodwork in California by the Woodwork Institute since 1951. The standards are developed by a Technical Committee and approved by the Board of Directors. Standards designation is the Manual of Millwork, M/M. Several governmental agencies have adopted the Woodwork Institute's Standards.

**Availability** Distributed directly

**Keywords** wood products; millwork; building;

### 3. FEDERAL GOVERNMENT

#### 3.1 FEDERAL VOLUNTARY STANDARDS POLICY (OMB CIRCULAR A-119)

On October 26, 1982, the Office of Management and Budget (OMB) issued Circular A-119, entitled "Federal Participation in the Development and Use of Voluntary Standards." This establishes a policy for all federal executive branch agencies concerning the use of voluntary standards and participation of federal employees in their development. It sets forth "the policy of the federal government in its procurement and regulatory activities to rely on voluntary standards, both domestic and international, whenever feasible and consistent with law and regulation pursuant to law." Voluntary standards should be adopted and used by federal agencies "in the interests of greater economy and efficiency" and should be given preference over non-mandatory government standards unless use of such voluntary standards would adversely affect performance or cost, reduce competition, or have other significant disadvantages.

Participation by federal agency employees in voluntary standards activities is encouraged when it would be "in the public interest and is compatible with agencies missions, authorities, priorities, and budget resources." Such participation should be aimed at contributing to the development of voluntary standards that will eliminate the necessity for the development and maintenance of separate government standards.

The Circular requires the coordination of agency participation so that (1) the most effective use is made of agency resources and representatives, and (2) the views expressed by those representatives are in the public interest, and, at minimum, do not conflict with the interests and established views of the agencies. Agencies must establish procedures to ensure that their representatives who participate in voluntary standards activity "will, to the extent possible, ascertain the views of the agency on matters of paramount interest, and will, as a minimum, express views that are not inconsistent or in conflict with established agency views."

The Circular also requires that agencies responsible for developing Government standards review their existing standards at least every five years and cancel those for which adequate and appropriate voluntary standards can be substituted.

#### 3.2 ROLE OF INTERAGENCY COMMITTEE ON STANDARDS POLICY

The Interagency Committee on Standards Policy was established in 1968 to encourage coordination and liaison among federal agencies on matters relating to standards. In response to the provisions of OMB Circular A-119, it is composed of policy-level representatives of the 13 federal cabinet departments, 12 independent federal agencies, and two offices in the Executive Office of the President, including the Office of Management and Budget. The National Institute of Standards and Technology provides the Chairman and the Secretariat.



The Committee meets at least once a year to establish new task groups of standards experts from agencies with specific interest in selected topics and to review work carried out by similar, previously established ad hoc groups. Recommendations are generally in the form of guideline documents and are transmitted to the Secretary of Commerce for distribution to the heads of agencies and departments represented on the Committee. They may also be published in the Federal Register. Typical task group assignments cover participation in international standardization activities, certification programs, and other standards-related activities.

### 3.3 FEDERAL GOVERNMENT ORGANIZATIONS

This section includes 77 entries for federal departments, agencies, and other organizational elements, most of which are standards developers. It should be noted that some federal standards are voluntary, though the majority are mandatory by reason of being referenced in legislation or regulations, or are invoked in contracts as a condition of sale to Government agencies. Many nongovernment standards are mandated in the same way.

Government organizations were asked to cite the means by which their standards are implemented or promulgated. Usually this is accomplished by incorporating the standards in applicable Parts of the Code of Federal Regulations (CFR). How the agency usually applies standards is summarized in the paragraph "Application." Authority for an agency's standardization activity is also included and is usually a citation of the United States Code (U.S.C.), a Public Law (P.L.), or a Part of the CFR. Most organizations have indicated the extent to which they adopt nongovernment standards and participate in government and private sector standards committees.

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## DEPARTMENT OF AGRICULTURE

### AGRICULTURAL MARKETING SERVICE

Administrator  
Room 3071 South Building  
P.O. Box 96456  
Washington, DC 20250  
(202) 447-5115 FAX: (202) 447-8477

#### **Authority**

Agricultural Marketing Service (AMS) carries out standardization activities under the Agricultural Marketing Act of 1946, the U.S. Cotton Standards Act of 1923, the Tobacco Inspection Act of 1935, the Federal Seed Act of 1939, and the Egg Products Inspection Act (EPIA).

#### **Implementation**

U.S. grade standards for food and farm products are contained in the Code of Federal Regulations, Section 7. Standards for cotton, linters, wool, tobacco, live animals, raisins, turpentine, fresh fruits and vegetables, processed fruits and vegetables, dairy products, meat, poultry, and poultry products are promulgated under 7 CFR, Part 26-209.

The purpose of the standards is to identify the degrees of quality in food and farm products and thereby aid in marketing by establishing the usability or value of these products.

The standards, in most cases, are for voluntary use by industry. There are 39 standards for cotton, Upland cotton, 7 for Pima cotton and 8 for linters; 13 standards for dairy products; over 150 standards for fresh fruits, vegetables, nuts, and specialty products; over 150 standards for processed fruits and vegetables, honey, and miscellaneous processed products; 7 standards for meat; 11 standards for live animals and wool; 7 standards for shell eggs; one standard for poultry and rabbits; and 15 standards for tobacco and naval stores. Within each standard, there are a number of levels of quality-grades- for the product.

AMS sets standards for agricultural and vegetable seed purity, germination, and variety certification. The standards are found in 7 CFR, Part 201.

Under the EPIA, AMS specifies the conditions under which egg products and "restricted eggs" are handled.

#### **Application**

Grading, inspection, or classing services, to certify the quality of products according to the U.S. grade standards, are provided by Department of Agriculture (USDA) to producers, packers, wholesalers or others, on



request, and usually for a fee to cover the cost of the service.

Egg products plants must operate under continuous inspection of USDA, and these plants must apply for the service, submit blueprints of their plant, complete any necessary remodeling and equipment installation, submit labels, and have their water supply approved. Egg products plants are those which manufacture liquid, frozen, or dried egg products.

Businesses that handle shell eggs must register with USDA. They must also destroy eggs that are in any way unsuitable for human consumption eggs. Dirty eggs and eggs with cracked shells but with the contents not leaking, must be shipped only to officially inspected egg products processing plants for proper segregation and processing.

In addition, AMS approves or disapproves for importation egg products from foreign countries.

AMS has cooperative agreements with each state to regulate interstate commerce for agricultural and vegetable seeds. Under these agreements, the States refer apparent violations of the Federal Seed Act interstate provisions to AMS for verification and appropriate action. In addition, AMS conducts a voluntary seed certification program.

**Qualification,  
Certification,  
or Calibration**

Services to certify the quality of products according to the U.S. grade standards are provided for a fee to cover the cost of the service. The Tobacco Inspection Act provides for free and mandatory inspection of tobacco based on official grades, after a referendum in which two-thirds of the growers supplying an auction market vote approval. Tobacco may also be inspected on a voluntary, fee-for-service basis.

**Committee  
Activity**

AMS officials participate in committees of trade, technical, and academic organizations -- both national and international --related to AMS commodities and functions as appropriate.

**Standardization  
Activities**

Standardization specialists in each commodity area develop new U.S. grade standards and revise current standards as necessary to promote orderly marketing. Market surveys and other studies are conducted, and proposed standards and revisions are published for public comment before implementation.

**Availability**

Information on the AMS activities described here is available from the AMS, Information Staff, P.O. Box 96456, Room 3510-S, Washington, DC 20090-6456.

**Keywords**

food; farm products; agriculture; grading; seed testing; cotton classing; U.S. grade standards; egg products inspection;

**DEPARTMENT OF AGRICULTURE****FEDERAL GRAIN INSPECTION SERVICE**

Standards and Procedures Branch  
Field Management Division  
Room 1661-South  
P.O.Box 96454  
Washington, DC 20250  
(202) 382-0252 FAX: (202) 447-4628

**Authority**

The Federal Grain Inspection Service (FGIS) carries out standardization activities under the U.S. Grain Standards Act (USGSA), as amended (P.L. 94-582) and under the Agricultural Marketing Act of 1946 (AMA), as amended.

**Implementation**

Standards for grains are promulgated under 7 CFR, Part 810. Standards for rice, dry beans, lentils, and dry peas are promulgated under 7 CFR, Part 68. Standards for hay and straw are promulgated under 7 CFR, Part 57.

Nineteen U.S. Standards are currently in effect. Use of the standards under the USGSA is mandatory for grain exports, except to Mexico and Canada, by land carriers. Inspections of grains moving in domestic commerce are voluntary. As provided by the AMA, all inspection services (including export) are voluntary on the part of the trade.

**Application**

The amended U.S. Grain Standards Act requires FGIS to provide: (1) mandatory inspection and weighing services at export ports by federal or delegated state agency personnel; and (2) permissive inspection and weighing services at domestic locations by designated state and private agency personnel. The USGSA also requires FGIS to supervise all official inspection and weighing activities whether performed by federal personnel. Further, on a request basis, federal personnel perform inspection of rice and related commodities under the AMA and provide nationwide appeal inspection services.

**Qualification,  
Certification,  
or Calibration**

The Standards and Procedures Branch within the Field Management Division develops and implements grain inspection procedures to assure uniformity and reliability.

The Research and Development and Quality Control

Branches, of the Quality Assurance and Research Division, conducts research to develop, evaluate, approve, and monitor new grain inspection methods and equipment.

#### **Committee Activity**

The Division participates in the following standards related committees:

- FGIS Advisory Committee
- Codex Committee on Cereals, Pulses and Legumes
- International Organization for Standardization
- National Conference on Weights and Measures
- NC-151 Committee
- Rice Millers' Association -- Grades Committee
- American Dry Pea and Lentil Association -- Grades Committee
- National Dry Bean Council -- Grades Committee
- National Grain and Feed Dealers Association -- Grades Committee
- PNW Grain Standards and Quality Committee
- Grain Elevator and Processing Society -- Grades Committee
- National Alfalfa Hay Quality Committee
- Western Regional Coordinating Committee for Predicting Nutritive Value of Alfalfa Hay
- National Infrared Reflectance Project on Forages
- National Sunflower Association -- Grades Committee
- American Soybean Association -- Grades Committee
- American Farm Bureau Federation -- Wheat Advisory Committee
- North American Export Grain Association, Inc. -- Grades Committee
- National Hay Association -- Grades Committee

#### **Standardization Activities**

FGIS standardization activities aid orderly marketing of grain, oilseeds, rice, and related commodities. This is accomplished through the development, promulgation, and uniform application of new and revised U.S. standards for grain, oilseeds, rice, dry beans, dry peas, lentils, hay, straw, hops, and related processed commodities. Activities include establishment, review, and revision of U.S. Grain Standards to reflect the latest inspection techniques and marketing needs. The agency also evaluates instruments and equipment used in the inspection and weighing process to ensure accuracy. In addition, the agency maintains an international monitoring program which interacts with foreign governments and trade teams to exchange information and to respond to complaints concerning quality and quantity of grain shipments.

#### **Availability**

Copies of the standards are available through the Management Improvement and Information Programs Branch, Department of Agriculture (USDA), FGIS, Room 1626, - South Building, 1400 Independence Avenue, SW,



Washington, DC 20250, telephone (202) 475-3428.

**Keywords**

grain inspection; grain standards; grain weighing;  
commodity inspection; grain marketing; agricultural  
grading; food; agriculture;

**DEPARTMENT OF AGRICULTURE**

**FOOD SAFETY AND INSPECTION SERVICE**

Office of the Administrator  
331-E Administration Building  
Washington, DC 20250  
(202) 447-8217 FAX: (202) 472-4437

**Authority**

- (1) 21 U.S.C. 601-695, March 4, 1907, the Federal Meat Inspection Act, as amended in 1967, to authorize the examination of animals and meat products used in interstate or foreign commerce, and inspection of slaughter and packing establishments.
- (2) 21 U.S.C. 451-469, August 28, 1957, the Poultry Products Inspection Act, as amended in 1968, to provide for the compulsory inspection of poultry and poultry products at slaughter and processing plants.
- (3) 7 U.S.C. 1901-1906, the Humane Slaughter Act, to require humane methods of slaughter in federally inspected plants.

**Implementation**

9 CFR, III-A and C, Parts 301-335 and 381, Mandatory Meat Inspection and Mandatory Poultry Products Inspection.

**Application**

Mandatory continuous on-site inspection of domestic meat and poultry. Periodic reviews of foreign country inspection systems eligible to export meat and poultry to the United States.

**Qualification,  
Certification,  
or Calibration**

Standards have been developed to cover the ingredients, methods of processing, and labeling of meat and poultry products; the materials and design of plant facilities and equipment; inspection methods; and chemical compounds permitted in the formulation, packaging or processing of meat and poultry products.

In FY 1988, 154,570 labels were approved; 3,783 plant blueprints were reviewed; 3,861 equipment drawings were reviewed; 11,051 packaging materials and compounds were reviewed; and the inspection systems of 29 countries that export products to the United States were reviewed.

**Committee  
Activity**

Standards are developed by appropriate staffs within the program in consultation with the National Meat and Poultry Inspection Advisory Committee.

**Standardization  
Activities**

The Food Safety and Inspection Service (FSIS), Department of Agriculture (USDA), administers a comprehensive inspection system to assure that meat and poultry is safe, wholesome, and accurately labeled. Inspection begins with review of a slaughtering or processing plant's plans for facilities, equipment, and procedures to assure that the plant will have a safe and sanitary operation. Animals are inspected both before and after slaughter. Veterinary supervisors monitor the procedures and work with the inspectors to assure uniformity in the inspection process and to provide expertise in detecting animal diseases. Inspection also includes examination for drug and chemical residues, and inspectors regularly take tissue samples from slaughtered animals and send them to FSIS laboratories. FSIS reviews the procedures, recipes, and labels used to manufacture processed meat and poultry products to assure they will be safe to eat and accurately labeled.

More than 7,600 inspectors and veterinarians oversee inspection in 6,910 plants nationwide. Scientific testing to support the inspection program is carried out in three field laboratories, augmented by certified state and private laboratories. FSIS compliance officers make over 56,000 reviews annually of approximately 10,000 meat and poultry product handlers. FSIS regularly reviews the inspection systems operated by foreign countries to ensure they enforce requirements at least equal to those of the U.S. system. Imported products are re-inspected on a sample basis at the port-of entry.

**Availability**

Publications sold by Government Printing Office

**Keywords**

inspection; meat; label; review; food; poultry; import;

**DEPARTMENT OF AGRICULTURE**

**FOREIGN AGRICULTURAL SERVICE**

Office of the Assistant Administrator  
International Trade Policy, Room 5057 SAG  
14th and Independence Avenue, SW  
Washington, DC 20250  
(202) 447-6887 FAX: (202) 472-4774

<b>Authority</b>	19 U.S.C. 2542 Trade Agreements Act of 1979-Title IV-Technical Barriers to Trade (Standards) Subtitle B-Functions of Federal Agencies, Sec. 412. Establishment and Operation of Technical Offices.
<b>Implementation</b>	7 CFR, Part 2 & E.O. 1218, Sec. 1-103. Final rule published in the Federal Register Vol. 45, No. 242, December 15, 1980-page 82153.
<b>Committee Activity</b>	The Foreign Agricultural Service (FAS), Department of Agriculture (USDA), Technical Office participates in two intra-agricultural committees, the National Agricultural Pesticide Impact Assessment Program (NAPIAP), which is a policy committee, and Technical Advisory Group (TAG), which is an advisory committee to NAPIAP. In addition, the Technical Office is represented on the inter- governmental agency Trade Policy Staff Committee (TPSC) - Subcommittee on Standards. The Technical Office is also involved with two non-governmental committees, the National Agricultural Chemicals Association (NACA) - International Committee and the Association of Official Analytical Chemists (AOAC) Committee on Laboratory Accreditation.
<b>Standardization Activities</b>	<p>Participated in the development of the General Agreement on Tariffs and Trade (GATT) Agreement on Technical Barriers to Trade (Standards Code) and currently participates in twice-yearly Standards Code meetings in Geneva. Receives, through the GATT Secretariat and U.S. diplomatic posts in foreign capitals, notifications of proposed foreign mandatory standards and their requirements concerning agricultural products. Publishes proposed standards in Export Briefs (a weekly trade paper published by FAS) and also notifies them in Agnet (a computerized agricultural reporting system of the University of Nebraska). Comments, when appropriate, are sent to other governments or signatories to the Code on their proposed mandatory standards and related tests or certification systems, when their proposals are seen as potential barriers to trade. Assists in representations to foreign governments on standards-related trade policy activities. Provides information to U.S. exporters on existing standards in foreign countries. Provides advice to state and local governments on foreign trade aspects of their activities.</p> <p>In accordance with provisions of the Trade Agreements Acts, nineteen committees have been established: ten Agricultural Policy Advisory Committees, and nine Agricultural Technical Advisory Committees for Trade. These committees address trade issues in the areas of cotton, dairy, fruits and vegetables, grain and feed,</p>



livestock and products, oilseeds and products, poultry and eggs, sweeteners and tropical products, and tobacco and provide advice to Secretary of Agriculture and U.S. Trade Representative on standards-related trade policy activities of the United States.

**Keywords**

GATT; Standards Code; inquiry point; international trade; business; food; agriculture;

**DEPARTMENT OF AGRICULTURE**

**FOREST SERVICE**

Engineering Staff  
3rd floor CEN, Auditors Building  
201 14th Street, SW  
Washington, DC 20250  
(703) 453-9400 FAX: (202) 447-3610

**Implementation**

The United States Department of Agriculture Forest Service (USDA/FS) prepares standards for internal use; it does not promulgate standards for general use and prefers to reference existing voluntary standards.

**Application**

Application is usually decided by the sponsoring organization. For example, USDA/FS technical input on the strength of wood members was used by ladder manufacturers and was published by the American National Standards Institute and the National Safety Council. OSHA and CPSC adopt all or parts of these standards.

**Committee  
Activity**

USDA/FS technical experts participate in organizations including: ALSC, ASTM, AASHTO, ANSI, NFPA, HUD (FHA), FmHA, etc. They participate as technical authorities and represent the general interest category rather than producer or user.

**Standardization  
Activities**

USDA/FS technical experts participate in standards activities as individuals, and occasionally, when required, pay membership dues themselves.

**Availability**

Standards are obtainable through the sponsoring organization (e.g., ASTM, ANSI).

**Keywords**

wood; lumber; pulp; paper; glue; lumber grading; strength of wood; wood preservatives; wood adhesives;

## DEPARTMENT OF AGRICULTURE

### INFORMATION RESOURCES MANAGEMENT

Planning, Review, and Standards Division  
Room 447-W Administration Building  
Washington, DC 20250-7600  
(202) 447-6275 FAX: (202) 382-1031

#### **Authority**

PL 89-306 and resulting Federal Information Processing Standards (FIPS PUBS); PL 93-579; PL 96-511; Federal Property and Administrative Services Act of 1949, companion letter of August 14, 1972 from the Administrator of GSA delegating federal telecommunications standards development responsibilities to the Executive Agent of the National Communications System and recently confirmed and amplified by Executive Order 12472.

#### **Implementation**

The Office of Information Resources Management (OIRM) is responsible in USDA for standards that cover information processing management and operations for office automation, data processing, data administration and telecommunications environments, related data and security. The specifications are promulgated in the Departmental Directives System, in regulations, and in the Departmental standards and mandatory procedures which must be followed. Voluntary federal and Departmental procedures and guidelines are to be used unless an alternative specification is superior.

#### **Application**

The specifications are used in acquisition documents to control products and services brought into the Department's inventory. They apply to all information processing units, resources, and activities in USDA.

#### **Adoption**

The majority of the Departmental standards are incorporated from those specified in the FIPS PUBS of the National Institute of Standards and Technology (NIST). A few are from other standards bodies such as the American National Standards Institute (ANSI).

#### **Qualification, Certification, or Calibration**

Certification is required of computer software pursuant to the requirements of Office of Management and Budget Circular A-71. Certification is required of all sensitive systems. Conformance of products to FIPS PUBS is tested in accordance with tests or procedures developed by NIST or OIRM.

#### **Committee Activity**

OIRM participates in standardization activities (committees, user workshops, etc.) of the National Institute of Standards and Technology, the United Nations, and the National Communication System.

**Standardization  
Activities**

OIRM coordinates the review of draft FIPS PUBS by Agriculture agencies, consolidates comments and works with NIST to ensure that standards meet the Department's requirements. New specifications are adopted automatically if they are federal standards and after review if they are procedures or guidelines. OIRM lends assistance to the agencies in developing interim standards to address areas where no formal federal standard exists.

**Keywords**

ADP; telecommunications; automation; data management; data administration; computers; information resources management; data processing; standards;

**DEPARTMENT OF AGRICULTURE**

**PACKERS AND STOCKYARDS ADMINISTRATION**

Livestock Marketing Division  
Scales and Weighing Branch  
Room 3414, South Agriculture Building  
Washington, DC 20250  
(202) 447-3140

**Authority**

7 U.S.C. 181-229, Packers and Stockyards Act; 9 CFR 201.71 and 201.72.

**Implementation**

Subject livestock dealers, market agencies, stockyards, meat packers and poultry dealers are required by regulations promulgated under the authority of the Packers and Stockyards Act to install, maintain, and use scales which conform to the specifications, tolerances, and other technical requirements set out in NIST Handbook 44.

**Application**

The Packers and Stockyards Administration monitors the selection, installation, maintenance, testing and use of livestock, monorail, and vehicle scales operated by subject firms to assure that such devices conform to NIST Handbook 44 requirements. The Agency also participates in the testing of such devices when newly installed and in connection with training and investigative activities.

**Adoption of  
Nongovernment  
Standards**

None

**Qualification  
Certification  
or Calibration**

Scale testing agencies must be competent and must use properly calibrated test weights in sufficient amounts to properly test scales in accordance with requirements set out in NIST Handbook 44.



<b>Committee Activity</b>	The Packers and Stockyards Administration has a participating membership on the Technical Committee on National Type Evaluation, Weighing Industry Sector, of the National Conference on Weights and Measures.
<b>Standardization Activities</b>	The Packers and Stockyards Administration is an active participant in the National Training Program of the National Conference on Weights and Measures. In that capacity the agency participates in the development of test procedures and instructional material and furnishes instructors to provide training and certification under the National Training Program.
<b>Availability</b>	NIST Handbook 44 is available from the Government Printing Office. Testing and weighing procedure memorandums are available from the Packers and Stockyards Administration.
<b>Keywords</b>	testing; weighing; training; livestock; meat; and poultry;

## DEPARTMENT OF AGRICULTURE

### RURAL ELECTRIFICATION ADMINISTRATION

Room 4051 South Building  
Washington, DC 20250  
(202) 382-9540

<b>Authority</b>	7 U.S.C. 901-950b with amendments through October 1988.
<b>Implementation</b>	Through printed bulletins and lists of Rural Electrification Administration (REA) accepted materials and equipment.
<b>Application</b>	Electric and Telecommunications Staff Divisions work with area offices to maintain and make available to borrowers construction, maintenance, and operating standards and lists of materials accepted as meeting those standards.
<b>Adoption of Nongovernment Standards</b>	REA incorporates new and revised nongovernment standards into REA's lists.
<b>Qualification, Certification, or Calibration</b>	Borrowers must submit work plans to REA defining the proposed construction. REA does not become directly involved in bidding and letting contracts to manufacturers, but borrowers have the responsibility of using those on approved list.
<b>Committee Activity</b>	REA sits on appropriate committees with IEEE, ANSI, and others with activities which relate directly to electric and telecommunications borrowers.

**Standardization  
Activities**

REA has issued 385 Bulletins detailing requirements for organizing, financing, designing, constructing, and operating electric generation and distribution systems and telephone facilities. Nearly half of these define technical requirements for equipment, materials, design, testing, safety, and maintenance. The remainder include lists of acceptable materials as well as standards for financial and statistical reports, loan agreements, model contracts and related business matters.

Standards and specifications of national standardizing organizations are utilized to the maximum practicable extent. Where they are not adequate or where they do not exist, REA prepares standards and specifications to be used by its borrowers which construct and operate rural electric and telephone systems. Standards and specifications are also prepared where it appears that such specifications and standards will result in reduced costs, improved materials and equipment, or the more effective use of engineering services. Standards and guides are also prepared which relate to the management and operation of rural electric and telephone systems.

REA standards are utilized by 2,000 rural electric and telephone systems to which loans have been made in 47 states, The Virgin Islands, Guam, Puerto Rico, Saipan, Tinian, and Rota. The standards are also utilized by other organizations in this country and abroad.

**Availability**

Information on REA standards and copies of most standards are available upon request to the Rural Electrification Administration, U.S. Department of Agriculture (USDA), Washington, DC 20250. Several REA publications which include specifications, standard construction drawings and contract forms are available from the U.S. Government Printing Office.

**Keywords**

electric power; transmission; distribution; generation; energy; electrical equipment; telephone; communications;

**DEPARTMENT OF COMMERCE**

**BUREAU OF THE CENSUS**

Public information Office  
Room 2705, FB 3  
Washington, DC 20233  
(301) 763-4051

**Committee  
Activity**

The Bureau of the Census, Department of Commerce (DOC), participates in pertinent standards committees of the following: American Agricultural Economics Association; American National Standards Institute; Office of Management and Budget, Statistical Policy Office, Office of Information and Regulatory Affairs; Department of State, Commission on Cartography; Department of Interior, National Mapping Division, Spatial Data Transfer Standard Technical Review, Board on Geographic Names.

**Standardization  
Activities**

The Bureau of the Census is active in development of standards and specifications for definition of metropolitan statistical areas, digitalizing of geographic information, and statistical economic and geographic definitions.

**Keywords**

cartography; metropolitan statistical areas; economic statistics; digital cartography; digital geographics; data;

**DEPARTMENT OF COMMERCE**

**FEDERAL COORDINATOR FOR METEOROLOGY**

6010 Executive Blvd., Room 900  
Rockville, Maryland 20852  
(301) 443-8704

**Authority**

- (1) Section 304 of the Department of Commerce (DOC) Appropriation Act of 1963.
- (2) OMB Circular A-62 dated November 13, 1963 which outlines policies and procedures for the coordination of federal meteorological services.
- (3) Comptroller General Report to the Congress of the United States dated October 16, 1979, states, "The Federal Weather Program must have stronger central direction."

**Implementation**

Meteorological program standards and guidelines are developed within the federal interdepartmental committee structure for meteorological services and supporting research. The guidelines, standards and plans are approved by the Interdepartmental Committee for Meteorological Services and Supporting Research (ICMSSR) for implementation by agencies.

**Application**

The plans, standards, and guidelines are implemented through procurement specifications, approved inter-agency plans and procedures, and through cooperative adoption.



<b>Adoption of Nongovernment Standards</b>	Extensive use is made of general standards and guidelines provided by NIST (Federal Information Processing Standards), DoD, ANSI, ISO, World Meteorological Organization (WMO). They are refined to meet the special needs for meteorological operations, services, and supporting research.
<b>Committee Activity</b>	The ICMSSR and its subsidiary interagency committees and groups are the developers and approvers of meteorological program plans, standards and guidelines. Members of these groups and of the Office of the Federal Coordinator for Meteorology maintain liaison directly and indirectly with other federal and non-federal standards bodies, including international organizations, such as WMO.
<b>Availability</b>	Office of the Federal Coordinator for Meteorology.
<b>Keywords</b>	weather; meteorology; instrumentation; satellites; aviation; space environment; communications; weather reconnaissance; weather radar; solar-terrestrial; data processing;

## DEPARTMENT OF COMMERCE

### INTERNATIONAL TRADE ADMINISTRATION

Office of Multilateral Affairs/GATT Affairs Division  
14th Street and Constitution Avenue, NW, Room 2062  
Washington, DC 20230  
(202) 377-1810 FAX: (202) 377-5939

<b>Authority</b>	Title IV of the Trade Agreements Acts of 1979 (P.L. 96-39), the U.S. legislation which implements the GATT Agreement on Technical Barriers to Trade (Standards Code) for the United States and establishes rules for federal agencies engaged in standards-related activities.
<b>Implementation</b>	The Standards Code is implemented in the United States by the Interagency Trade Policy Staff Committee, Subcommittee on Standards. Within the Department of Commerce (DOC), International Trade Administration (ITA) shares responsibility with the National Institute of Standards and Technology (NIST) for Standards Code implementation. ITA is primarily responsible for standards trade policy matters while NIST has the lead in Code-related technical and informational activities.
<b>Application</b>	Commerce application of Title IV has centered on three areas: 1) publicity of the Code's rights and benefits to U.S. exporters, particularly of the Code's technical

information network and notification/comment provisions; 2) raising standards-related trading problems of U.S. business in bilateral negotiations with key trading partners under Code auspices; and 3) representing U.S. industry's interests in GATT Standards Code Committee deliberations.

**Committee  
Activity**

Represents the Commerce Department in the following committees: Committee on Technical Barriers to Trade of the General Agreement on Tariffs and Trade (GATT); the U.S. Trade Policy Staff Committee, Subcommittee on Standards; and the U.S. Industry Functional Advisory Committee (IFAC) on Standards Trade Policy Matters.

**Availability**

Information to assist U.S. companies in taking advantage of the benefits of the GATT Standards Code is available from the GATT Affairs Division.

**Keywords**

GATT; Standards Code; technical barriers to trade; non-tariff barriers; trade; business; general;

**DEPARTMENT OF COMMERCE**

**NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY**

National Computer Systems Laboratory (NCSL)  
Program Coordination and Support, Bldg. 225, B151  
Gaithersburg, Maryland 20899  
(301) 975-2833 FAX: (202) 975-2128

**Authority**

Federal Property and Administrative Services Act of 1949, as amended by the Computer Security Act of 1987, Public Law 100.235.

**Implementation**

The National Computer Systems Laboratory (NCSL) of the National Institute of Standards and Technology performs computer and related telecommunications research, develops standards and guidelines for computer systems, and provides technical assistance and advisory services to federal government agencies.

**Application**

NCSL's research and standards activities advance the efficient use of computer technology and support the development of off-the-shelf, commercial products for computer system users. The Computer Security Act specifies NCSL's role in protecting sensitive information that is processed in federal computer systems, and designates NCSL as the lead agency for standards, guidelines, and technology for the security of unclassified, sensitive information throughout the federal government.



**Committee  
Activity**

NCSL supports national and international voluntary standards-developing organizations, and broad-based industry and user consortia that complement the voluntary standards process. NCSL staff members participate in technical committees of organizations accredited by the American National Standards Institute, and other groups to foster the development of standards that will meet federal government requirements for applications portability, for the interoperability of hardware, software and communications systems, for the exchange of information between systems, and for the protection of information from threats of all kinds.

**Standardization  
Activities**

Standards and guidelines that are developed through government/industry cooperative efforts are issued as Federal Information Processing Standards Publications (FIPS PUBS) to help federal agencies buy off-the-shelf commercial equipment and systems, and to follow accepted good practices in managing information resources.

Major areas of focus include: Open systems interconnection (OSI); user interfaces to operating systems, graphics systems, and database management systems; information security; information exchange formats; computer storage media; programming languages; document and image exchange.

FIPS PUBS include standards, guidelines, and program information documents for hardware, software, data, and computer systems operations. FIPS PUBS are listed in NIST Publications List 58 which is available from NCSL, National Computer Systems Laboratory, Rm. B64, Gaithersburg, Maryland 20899, telephone: (301) 975-3587.

**Availability**

FIPS are available from the National Technical Information Service, (NTIS) 5285 Port Royal Road, Springfield, Virginia 22161, telephone: (703) 487-4650

**Keywords**

Federal Information Processing Standards; computer systems; computer security; information processing; information technology;

**DEPARTMENT OF COMMERCE**

**NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY**

National Engineering Laboratory  
Law Enforcement Standards Laboratory, Bldg. 224, B116  
Gaithersburg, Maryland 20899  
(301) 975-2757 FAX: (301) 948-7434



## Authority

- (1) Title 1, Section 402(b) of the Omnibus Crime Control and Safe Streets Act of 1968, P.L. 90-351
- (2) 42 U.S.C. 3701, Justice System Improvement Act of 1979, P.L. 96-157

## Implementation

The Law Enforcement Standards Laboratory (LESL) develops standards for the U.S. Department of Justice, National Institute of Justice (NIJ), and the National Highway Traffic Safety Administration (NHTSA).

The standards developed by LESL are performance oriented insofar as possible. They are not consensus standards but are subjected to extensive technical and editorial review within NIST, as well as other government agencies, manufacturers, users, and independent experts. The standards are given a final review by the sponsor (NIJ or NHTSA) and promulgated by them.

The NIJ has elected to publish all LESL-developed standards as voluntary national standards. Law enforcement agencies are encouraged to use the NIJ standards to achieve cost-effective procurement of equipment through competitive bid. In recent years, under a separate NIJ grant, Aspen Systems Corporation has operated a limited equipment testing program through the Technology Assessment Program Information Center (TAPIC). The TAPIC contracts with two independent testing laboratories to conduct tests of equipment in accordance with NIJ standards. Complete test results are then published by TAPIC in a consumer information report series to assist state and local law enforcement agencies in selecting equipment that is suitable for their needs. Test reports published to date include police body armor, hand-held personal-/portable transceivers, handcuffs, riot and crash helmets, narcotic test kits, batteries for hand-held transceivers, 12-Gauge shotguns, 9 mm and 45 caliber revolvers, vehicle tracking devices, body-worn transmitters, and an annual report of police vehicle test results. Subsequent to publication of the initial test report, manufacturers may have their equipment tested to the NIJ standard by either of the two independent testing laboratories, and TAPIC will issue supplemental data sheets for the new products and retest.

In addition to the TAPIC testing program, certain manufacturers choose to use the NIJ standards as the benchmark for product design and certify compliance to the NIJ standards in their equipment specifications.

Prior to 1983, the NHTSA mandated the use of LESL-developed standards for state and local government procurement of evidential breath testers. Commercial products were tested by the U.S. Department of Transportation Systems Center in accordance with LESL-developed standards, and those devices which passed were placed on the NHTSA qualified products list. In 1983, the LESL-developed standard for speed measuring radar devices was issued by NHTSA as a voluntary model equipment specification. In 1983, the International Association of Chiefs of Police undertook testing of speed measuring radar devices in the same manner as the NIJ equipment testing program and issued a consumer report on the results of those tests. It is anticipated that all future LESL-developed standards for breath alcohol instruments will be promulgated by NHTSA as voluntary model equipment specifications for use by state and local governments, and not mandated as in the past.

The standards that are developed by LESL are scheduled consistent with the priorities of the other-agency sponsors and available funds from those agencies. To ensure that the LESL program is relevant to the needs of the law enforcement community, the NIJ has established, through TAPIC, an advisory council that reviews LESL program plans and recommends research and equipment testing priorities, including the mission of NHTSA.

## **Application**

The standards that are developed by LESL are based upon laboratory evaluation of commercially-available products to devise precise test methods that can be universally applied by any qualified testing laboratories, and to establish minimum performance requirements for each attribute of an item of equipment that is essential to the manner in which it functions. The LESL-developed standards can serve as design criteria for the manufacturers or as the basis for equipment evaluation. The application of the standards, which are highly technical in nature, is augmented through the publication of technical reports and user guides. Individual jurisdictions may use the standards in their own laboratories to test equipment, have equipment tested on their behalf using the standards, or cite the standards in procurement specifications.

## **Adoption of Nongovernment Standards**

To the extent possible, LESL utilizes pre-existing industrial and trade association standards during the development of standards for NIJ and NHTSA, which may be directly cited or adapted to specialized testing methods in the final standard. Nongovernment standards utilized in the LESL program include those of the American Society for Testing and Materials, the



American National Standards Institute, the Institute of Electrical and Electronics Engineers, Electronic Industries Association, and the Society of Automotive Engineers, among others as appropriate.

**Qualification,  
Certification,  
or Calibration**

In those instances when NIJ and NHTSA sponsor the testing of specific items of equipment, LESL assists in the preparation of the request for proposal from testing laboratories and the evaluation of the resulting bids to tentatively select two independent testing laboratories for each item of equipment. Following the award of the two contracts, LESL, TAPIC/IACP, and members of the National Institute of Standards and Technology (NIST) National Voluntary Laboratory Accreditation Program visit the laboratories for an on-site facility investigation and witness the complete testing of one item of equipment.

When the inspection team is satisfied that the laboratory personnel are proficient in testing to the LESL-developed standards, that all test equipment is properly calibrated, maintained and operated, and that appropriate test records are maintained, the TAPIC/IACP classifies the laboratory as a TAPIC/IACP-certified laboratory for that item of equipment. The laboratory is then allowed to proceed with the main-quantity testing. In the event that a laboratory does not demonstrate appropriate testing proficiency or lacks essential facilities during the on-site inspection, the contract is terminated and another laboratory is selected for the testing program. In those instances when the private sector, state and local government agencies wish to apply the LESL-developed standards in their own laboratories, LESL remains available for consultation on the application of the standards. However, certification or accreditation is not provided.

**Committee  
Activity**

The LESL participates in pertinent committees of the American National Standards Institute, the American Society for Testing and Materials, Electronic Industries Association, and the Institute of Electrical and Electronics Engineers.

**Standardization  
Activities**

The LESL program includes research in the broad range of equipment that is used by the entire law enforcement community. The NHTSA-sponsored activities are limited to speed measuring devices (radar and vascar).

The NIJ-sponsored activities are part of an overall Technology Assessment Program that includes both the development of standards and other documents and the actual testing of equipment and publication of the test results. The Communication Systems Program has



resulted in the development of standards for nearly all items of such systems -- transceivers, base stations, control heads, digital transmission systems, and tracking devices, to mention a few. The Security Systems Program has developed standards for all components of intrusion alarm systems, and standards for the physical security of door and window assemblies. The Weapons and Protective Equipment Program has developed standards for revolvers and automatic pistols, body armor, protective helmets, and tear gas devices. The Investigative Aids Program has developed standards for weapons and explosives detectors, arson accelerant detectors, and narcotic test kits. Other studies have centered on emergency vehicle warning systems and police clothing.

In addition, LESL has developed reference collections for use by forensic laboratories of automobile paints and synthetic fibers, and standard reference materials (refractive index glass and refractive index silicone liquids).

The LESL provides a complete publication list of documents available from the program upon request. This list is updated periodically as new documents are published. For the past several years, new documents have become available at an average of 10 documents per year, which is expected to continue for the next several years.

**Availability**

National Technical Information Service; U.S. Government Printing Office; National Criminal Justice Reference Service; Technology Assessment Program Information Center and Law Enforcement Standards Laboratory.

**Keywords**

alcohol countermeasures; alarm systems; communications; investigative aids; law enforcement standards; police equipment; protective equipment; reference collections; weapons; public safety; transportation;

**DEPARTMENT OF COMMERCE**

**NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY**

Technology Services  
Gaithersburg, Maryland 20899  
(301) 975-4500 FAX: (202) 975-2183

**Authority**

31 Stat. 1449 as amended, 64 Stat. 371, 15 U.S.C 271-278, P.L. 89-306, P.L. 89-755, and P.L. 94-168.

**Implementation**

Voluntary Product Standards are developed under Department of Commerce (DOC) procedures (15 CFR, Part 10) for softwood lumber (PS 20-70), construction and industrial plywood (PS 1-83), and carbonated soft drink bottles (PS 73-89).

**Application**

Voluntary Product Standards are voluntarily used by manufacturers, distributors, purchasers, specifiers, and others in producing, marketing, and specifying products. Voluntary Product Standards are very often adopted as American National Standards (ANS) after being processed under the procedures of the American National Standards Institute (ANSI). Some Voluntary Product Standards are referenced in local and state building codes and are used in product certification programs.

**Qualification, Certification, or Calibration**

The National Voluntary Laboratory Accreditation Program (NVLAP), associated with the office, provides a voluntary mechanism for evaluating and recognizing the technical expertise and ability of private testing laboratories to perform specific nationally recognized tests for selected product areas or testing. Laboratories must meet minimum requirements for equipment, personnel, and quality control to be accredited under this program.

**Committee Activity**

Technology Services coordinates and monitors the National Institute of Standards and Technology (NIST) activities in standards committees. NIST staff members hold more than 1,250 memberships on 844 standards committees of some 81 organizations (national as well as international) involved in standards activities. During 1988, 521 trips were taken to domestic standards committee meetings and 124 foreign trips were made. The Institute's staff participate in many standards programs as part of its responsibilities for maintaining and advancing national standards of measurement.

**Standardization Activities**

Technology Services monitors the Institute's total involvement in private sector standards activities. The Office is the focal point for coordinating standards activities throughout the Department of Commerce, and assists other agencies in implementing federal standards policy as enunciated in OMB Circular A-119. It operates the Interagency Committee on Standards Policy and uses that committee to implement the provisions of Circular A-119 in a uniform and effective manner throughout all federal executive branch agencies.

Technology Services also serves as the principal point of contact between the federal government and the



voluntary standards community. Institute staff persons serve on the boards and councils of many voluntary standards organizations, including ANSI, ASTM, ASHRAE, CBEMA, IEEE, NFPA, and UL, and thereby have the opportunity to influence national standards policy.

There are four major standards-related programs at NIST:

- The National Voluntary Laboratory Accreditation Program provides a mechanism for nationally recognizing the competency of U.S. testing laboratories in evaluating selected products for conformance with specific standards. This program also represents U.S. interests in the International Laboratory Accreditation Conference (ILAC) and provides the basis for bilateral agreements with other countries for acceptance of test data produced in U.S. laboratories.
- The Office of Weights and Measures develops recommendations for performance and test requirements for weighing and measuring devices used commercially and develops test methods to be used in evaluating these devices. This office sponsors the National Conference on Weights and Measures (a national organization made up of federal, state, and local weights and measures officials and appropriate industry representatives), which promotes uniformity in weights and measures programs through the adoption of model laws, regulations, specifications, and tolerances for weights and measures.
- The Standards Management Program manages the U.S. participation in the International Organization for Legal Metrology (OIML), an intergovernmental body concerned with the harmonization of national legal requirements pertaining to measurements in commerce, industry, and public health. This program is responsible for administering the Department of Commerce Voluntary Product Standards Procedures (15 CFR Part 10). Three standards are maintained under these procedures: PS 1-83, Construction and Industrial Plywood; PS 20-70, American Softwood Lumber Standard; and PS 73-89, Glass Bottles for Carbonated Soft Drinks.
- The Standards Code and Information Program is responsible for providing information on 1) U.S. voluntary standards, 2) government regulations and specifications, 3) U.S. certification programs, 4) foreign and international standards, and 5) proposed foreign regulations relating to standards and certification programs. The program operates the



National Center for Standards and Certification Information (NCSCI) (See Sources of Standards and Information); serves as the U.S. "inquiry point" for information on proposed regulations which might significantly affect trade, as sent to and received from the Secretariat of the General Agreement on Tariffs and Trade (GATT), thus complying with the GATT Agreement on Technical Barriers to Trade, the "Standards Code;" and conducts technical office activities for non-agricultural products as required by the U.S. Trade Agreements Act of 1979. Under this program, NIST provides technical standards-related support for the International Trade Administration (Department of Commerce) and other federal agencies engaged in policy-making and negotiations with other governments.

The standardization activities of all NIST units are summarized in a NIST report, issued annually. This publication provides statistical as well as narrative information about the participation of NIST staff in standardization activities.

**Availability**

Voluntary Product Standards are available from the National Technical Information Service and/or the Government Printing Office.

**Formerly**

The National Bureau of Standards, Office of Product Standards and Office of the Associate Director for Industry & Standards.

**Keywords**

voluntary standards; Voluntary Product Standards; ILAC; laboratory accreditation; standards activities; weights and measures; GATT; Standards Code; standards information; inquiry point; business; instruments; testing; general;

**DEPARTMENT OF COMMERCE**

**NATIONAL MARINE FISHERIES SERVICE**

Office of Trade and Industry Services  
1335 East-West Highway, Room 6490 MOB  
Silver Spring, Maryland 20910  
(301) 427-2351

**Authority**

- (1) 7 U.S.C. 1621-1627, Agricultural Marketing Act of 1946, to encourage uniformity and consistency in commercial practices.
- (2) 16 U.S.C. 742e, Fish and Wildlife Act of 1956, to promote fair trade standards.

- (3) 84 Stat. 2090, Reorganization Plan No. 4, which transferred the National Seafood Inspection Program from the Department of the Interior to the Department of Commerce.

<b>Implementation</b>	23 voluntary standards are codified as regulations in 50 CFR, Parts 261-266. They establish U.S. Standards for Grades for fish and fishery products.
<b>Application</b>	Inspectors certify, at the request of the seafood processor, that the product meets the criteria established in these standards. The inspection is conducted at the processing facility.
<b>Adoption of Nongovernment Standards</b>	No nongovernment standards have been adopted.
<b>Qualification, Certification, or Calibration</b>	To be eligible to use the official Department of Commerce (DOC) grade or identification marks as specified in 50 CFR Part 260.86, the processor must participate in the voluntary National Seafood Inspection Program. The marks may appear on the product label and/or the certificate. The processor pays for participation in the Program. Seafood processors that do not participate in the Program may use the U.S. Standards for Grades as guidelines but must not display the official marks.
<b>Committee Activity</b>	<p>The following committees of the Codex Alimentarius Commission:</p> <ul style="list-style-type: none"><li>-Committee on Fish and Fishery Products</li><li>-Committee on Food Hygiene</li><li>-Committee on Food Labeling</li><li>-Committee on Pesticide Residues</li><li>-Committee on Methods of Analysis and Sampling</li><li>-Committee on Residues of Veterinary Drugs in foods</li></ul>
<b>Standardization Activities</b>	<p>The National Marine Fisheries Service (NMFS) is actively involved in the preparation of U.S. Standards for Grades for seafood products which establish the criteria for the measure of quality of those seafood products (U.S. Grade A, B, and C). The standards currently pertain to various fresh and frozen seafood products. These standards, the use of which is voluntary, are prepared at the request of the seafood processing industry and are available to all interested parties in this country and abroad.</p> <p>This agency's participation on the various committees of the Codex Alimentarius Commission, specifically the Committee on Fish and Fishery Products, is critical to ensure that the recommended international standards which establish a minimum standard of quality are</p>



reflective of this country's commercial practices.

This agency also is responsible for preparing specifications for seafood purchased for USDA's various feeding programs (school children, elderly, needy, American Indians).

**Availability** National Seafood Inspection Laboratory, National Marine Fisheries Service, P.O. Drawer 1207, Pascagoula, Mississippi 39567-0112.

**Keywords** fish; fishery products; seafood; quality standards; fish quality; seafood specifications; food safety;

## DEPARTMENT OF COMMERCE

### NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

National Environmental Satellite, Data, and Information Service (NESDIS)  
Data Collection and Direct Broadcast Branch  
E/SP21, Room 806 World Weather Building  
Washington, DC 20233

(301) 763-8325

**Authority** 15 U.S.C. 3.3, 49 U.S.C. 1483 provides the Secretary of Commerce with the authority to develop an international basic meteorological network.

**Implementation** Regulations on the administration and operation of a Geostationary Orbiting Environmental Satellite Data Collection System (GOES-DCS) is codified at 15 CFR, Part 911.

**Application** The National Oceanic and Atmospheric Administration (NOAA) GOES Data Collection System utilizes geostationary satellites to collect environmental data from remote locations. Standards on UHF transmitters and related equipment are established to ensure system integrity.

**Qualification, Certification, or Calibration** Manufacturers submit plans for in-plant testing of Data Collection Platform Radio Sets. If the plans are approved, a NOAA representative visits the manufacturer's testing facility and witnesses the tests. If a representative unit meets all of the established standards a type certificate is issued to the manufacturer.

**Committee Activity** National Environmental Satellite, Data, and Information Service (NESDIS) participates in the Coordinating Group for Geostationary Meteorological Satellites (CGMS) to



establish compatible standards for international use. CGMS is sponsored by the World Meteorological Organization (WMO).

**Standardization  
Activities**

Periodic meetings with industry are conducted to review the adequacy and applicability of the standards. Revisions to the existing standards are proposed in response to: technological developments; cost effectiveness considerations; operational difficulties observed within the GOES-DCS; and the need to clarify and improve measurement techniques.

**Availability**

Four standards for self-timed, random reporting, international and interrogated Data Collection Platform Radio Sets are available from: Chief, Data Collection and Direct Broadcast Branch (E/SP21), NOAA/NESDIS, Washington, DC 20233

**Keywords**

satellites; environment; electronic equipment; data processing; aerospace;

**DEPARTMENT OF COMMERCE**

**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION**

National Weather Service  
Test and Evaluation Division  
Route 1, Box 105  
8060 13th Street  
Sterling, Virginia 22170  
(703) 471-5302

**Authority**

(1) 15 U.S.C. 311 and 313, the original acts establishing the United States Weather Bureau. (2) 49 U.S.C. 1463 and Title 8, Section 803, of the Federal Aviation Act of 1958.

**Implementation**

Standards for producing weather information are included in the series of federal meteorological handbooks, federal specifications for meteorological equipment, and operational directives from the National Weather Service.

**Application**

Observers are certified by examination and experience and observatories are certified by periodic on-site inspection. Standards for federal specifications are applied by the purchase orders for the equipment, and Operational Directives are applied by on-site inspection of the affected installation.

**Adoption of  
Nongovernment  
Standards**

Excluding those that are produced by intergovernmental agreement within the United Nations, nongovernment generated standards are relatively rare within the

field of meteorology. A few such standards produced by organizations such as the American Society for Testing and Materials have been adopted. An effort is now underway to encourage voluntary standards organizations to produce standards for meteorology.

**Qualification,  
Certification,  
or Calibration**

Meteorological observatories are certified if they conform to the performance standards detailed in federal meteorological handbooks, and National Weather Service operational directives.

**Committee  
Activity**

The National Weather Service actively participates in the standardization activities of the World Meteorological Organization, the Office of the Federal Coordinator for Meteorological Services and Supporting Research, and the American Society for Testing and Materials.

**Standardization  
Activities**

The development of standard methods for producing meteorological observations and measurements and the development and use of standard test methods for meteorological equipment is being actively pursued by the National Weather Service. Most standards are those produced within the government and contained within the federal meteorological handbooks and by cooperation with other governments as published by the World Meteorological Organization in its guide to good practice. Nongovernment voluntary standards development organizations such as the American Society for Testing and Materials have been encouraged to develop standards for use in the field of meteorology but to date very few such standards exist.

**Availability**

The federal meteorological handbooks are sold by the Government Printing Office. Federal specifications for equipment and testing are available through the GSA Specification Unit.

**Keywords**

meteorology; weather; atmosphere; aviation; climatology; test; environment; instruments;

**DEPARTMENT OF COMMERCE**

**NATIONAL TELECOMMUNICATIONS AND INFORMATION  
ADMINISTRATION**

Institute for Telecommunications Sciences  
325 Broadway  
Room 3020 Radio Building  
Boulder, Colorado 80303-3328  
(303) 497-3500

**Authority**

Executive Order 12046, which established NTIA in 1977



<b>Application</b>	The Institute for Telecommunications Sciences (ITS), the research and engineering arm of the National Telecommunications and Information Administration (NTIA), participates and contributes to both national and international standards activities in radio, telecommunications, data transmission, and processing technologies. ITS staff are particularly involved in developing American National Standards and Federal Telecommunication Standards and providing leadership and participating in the development and promulgation of international telecommunication standards.
<b>Committee Activity</b>	ITS participates in the development of voluntary national consensus standards with emphasis on data, voice, and video performance standards, and integrated services digital network (ISDN) standards through the American National Standards Institute (ANSI) committees: Performance Technical Subcommittee; Performance Technical Subcommittee; Services, Architecture, and Signalling Technical Subcommittee; Specialized Subjects Technical Subcommittee; and Information Processing Systems. Internationally, ITS members work to develop Recommendations of the International Telegraph and Telephone Consultative Committee (CCITT) and the International Radio Consultative Committee (CCIR). ITS chairs a U.S. CCIR Study Group: Spectrum Utilization and Monitoring. The Institute also chairs a U.S. CCITT preparatory group: U.S. Study Group B (Switching, Signaling, and ISDN).
<b>Keywords</b>	radio; telecommunications; data processing;

**DEPARTMENT OF COMMERCE**

**U.S. PATENT AND TRADEMARK OFFICE**

Assistant Commissioner for Information Systems  
 Crystal Park Building 2  
 2121 Crystal Drive, Arlington, Virginia 22202  
 Mailing Address: Washington, DC 20231  
 (703) 557-2982 FAX: (703) 557-6369

<b>Implementation</b>	Federal Register
<b>Application</b>	Voluntary adoption
<b>Committee Activity</b>	ANSI Z39
<b>Standardization Activities</b>	Two projects are underway: 1. A study to develop standards for the form and format



of patent applications to facilitate data conversion to machine-readable form. The proposed standards will cover all elements of an application from bibliographic data and text to the specification for drawings and tabular information, and will specify form and formats conducive to optical character recognition processing of the application.

The standards will permit easy data reduction of thousands of patent applications for automated processing in the Patent and Trademark Office.

2. Development of a proposal for data base and data access standards for chemical structures and related expressions. Standards will cover data base content as well as procedures for expressing chemical compound structures, classifications, indexing, and other search and retrieval standards necessary.

These standards will increase data base scope and facilitate database exchange. They will also make possible joint system and database development with public and private developers of technological databases.

**Keywords**

patents; optical character recognition; database; information processing;

**DEPARTMENT OF COMMERCE**

**U.S. PATENT AND TRADEMARK OFFICE**

Office of the Assistant Commissioner for Patents  
Editor, Manual of Patent Examining Procedure  
Room 919, Crystal Park Building 2  
2121 Crystal Drive, Arlington, Virginia 22202  
Mailing Address: Washington, DC 20231  
(703) 557-3070 FAX: (703) 557-6369

**Authority**

- (1) 35 U.S.C. 6 authorizes the Commissioner of Patents and Trademarks to "establish regulations, not inconsistent with law."
- (2) 35 U.S.C. Section 9
- (3) 37 CFR 1.52(b)
- (4) 37 CFR 1.84(b)

**Implementation**

Manual of Classification, U.S. Patent and Trademark Office (USPTO), a loose leaf book containing a list of all the classes and subclasses of inventions in the USPTO classification system.

**Application**

This classification is used by the USPTO, and any other user of patent information, to classify and retrieve a

patent or patent related document in the U.S. Classification system.

**Committee  
Activity**

The Patent and Trademark Office participates in pertinent committees of the World Intellectual Property Organization, Geneva, Switzerland.

**Standardization  
Activities**

Member of Assembly of the Patent Cooperation Treaty in order to provide patent application format and units of weights and measures acceptable in all member countries.

**Availability**

Published in "Title 37, Code of Federal Regulations" and "Manual of Patent Examining Procedure," both available from U.S. Government Printing Office.

**Keywords**

patent applications; paper size; metric system; business; general;

**DEPARTMENT OF COMMERCE**

**U.S. PATENT AND TRADEMARK OFFICE**

Office of International Patent Documentation  
Room 300, Crystal Mall Building 2  
1921 Jefferson Davis Highway, Arlington, VA 22202  
Mailing Address: Washington, DC 20231  
(703) 557-0667

**Implementation**

Subcommittee H of American National Standards Committee Z39 specializes in patent matters and sets guidance standards therefore.

**Application**

Voluntary adoption

**Adoption of  
Nongovernment  
Standards**

Z39 meets with representatives of the U.S. Patent and Trademark Office (USPTO) and other related organizations to discuss and set standards to be used by the USPTO on a voluntary basis.

**Committee  
Activity**

The USPTO actively participates in Subcommittee H of Z39.

**Standardization  
Activities**

Z39 Subcommittee H (Patent Standards) gives special consideration to the publishing policies and practices of the USPTO in the development of U.S. standards as a result of the position of the USPTO as the primary publisher of U.S. patent literature. Z39 Subcommittee H addresses the practices of foreign publishers of patent data and those organizations in the United States who repackage and republish foreign patent data.

**Availability** American National Standards Institute

**Keywords** patents; patent standards; business;

**DEPARTMENT OF COMMERCE**

**U.S. PATENT AND TRADEMARK OFFICE**

Trademark Examining Operation  
Office of the Director  
2011 Jefferson Davis Highway, Arlington, Virginia 22202  
Mailing Address: Washington, DC 20231  
(703) 557-3268

**Authority** 15 U.S.C. 1112, July 15, 1946, Lanham Act Section 30, gives the Commissioner the authority to establish a system of classification of goods and services.

**Implementation** 37 CFR 2.85 and Part 6, implement the adoption of the International Schedule of classes for goods and services. Classification is the basis for determining the fee which must be paid per application.

**Committee Activity** U.S. Patent and Trademark Office (USPTO) is a member of the Committee of Experts which is the acting body established by the Nice Agreement. The Committee of Experts meets periodically to revise the International Classification.

**Standardization Activities** The classification of specific goods and services is set forth in the Alphabetical List entitled "International Classification of Goods and Services for Purposes of the Registration of Marks Under the Nice Agreement", published by the World Intellectual Property Organization (WIPO). This classification list contains the name of each class and the basic contents of the class. The Alphabetical List also comprises explanatory notes which serve as guidelines for determining the appropriate International Class for a specific product or service.

The primary purpose of the International Alphabetical List is to provide a written source for determining proper identifications and classifications of goods and services. The classification lists consist of:

- (1) a list of classes, together with explanatory notes; and
- (2) an alphabetical list of goods and services with an indication of the class into which each of the goods or services falls.



**Availability** World Intellectual Property Organization, 34 Chemin des Colombettes, 1211 Geneva 20, Switzerland,

UNIPUB, P.O. Box 433, Murray Hill Station, New York, New York 10016.

**Keywords** international classification; Nice Agreement; classification list; trademark classification; business; general;

## CONGRESS OF THE UNITED STATES

### JOINT COMMITTEE ON PRINTING

SH-818 Hart Senate Office Building  
Washington, DC 20510  
(202) 224-5241 FAX: (202) 224-1176

**Authority** The Joint Committee on Printing (JCP), created by act of August 3, 1846 (9 Stat. 114), is responsible for establishing specification standards for papers used in public printing and binding (44 U.S.C. 509), including federal government printing procured from the private sector.

**Implementation** The Government Paper Specification Standards include approximately 85 individual specifications for writing and printing papers, together with testing information, color standards, and acceptance criteria.

**Application** All the Government Paper Specification Standards must be used by all departments of the federal government and their field activities in the preparation of procurement documents for paper stocks and in specifying paper stocks to be used in printing, binding, copying, and duplicating, unless otherwise authorized by the Joint Committee on Printing.

**Standardization Activities** Administered by a Committee on Paper Specifications and its Technical Subcommittee, under the chairmanship of a Joint Committee staff member. Participating agencies include U.S. Government Printing Office, General Services Administration, National Institute of Standards and Technology and the Department of Defense.

**Availability** U.S. Government Printing Office

**Keywords** paper; colors; office products; printing;

## CONSUMER PRODUCT SAFETY COMMISSION

For Information on Mechanical, Electrical, and Thermal Hazard-Related Standards for Consumer Products:

### DIRECTORATE FOR ENGINEERING SCIENCES

5401 Westbard Avenue, Room 738  
Bethesda, Maryland 20207  
(301) 492-6504

For Information on Chemical Hazard-Related Standards for Consumer Products:

### DIRECTORATE FOR HEALTH SCIENCES

5401 Westbard Avenue, Room 712  
Bethesda, Maryland 20207  
(301) 492-6957

#### **Authority**

Consumer Product Safety Act (15 U.S.C. 2051 et seq.); Federal Hazardous Substances Act (15 U.S.C. 1261 et seq.); Poison Prevention Packaging Act (15 U.S.C. 1471 et seq.); Flammable Fabrics Act (15 U.S.C. 1191 et seq.); and Refrigerator Safety Act (15 U.S.C. 1211 et seq.).

#### **Implementation**

All standards, regulations and policy issuances are to be found within Title 16, Code of Federal Regulations Chapter II, Commercial Practices, Parts 1000 to end. Information on all Consumer Product Safety Commission (CPSC) mandatory product safety standards is published in the Federal Register in Advance Notices of Proposed Rulemaking, Notices of Proposed Rulemaking, and Final Rules.

#### **Application**

The Commission enforces all regulations and standards published in 16 CFR Chapter II, Parts 1000 to end. The Directorate for Compliance and Administrative Litigation is the Commission organization responsible for this activity. This Directorate is located at 5401 Westbard Avenue, Bethesda, Maryland. Telephone requests for information on regulatory standards enforcement may be obtained by calling (301) 492-6400. This Directorate is also responsible for enforcement activities under Section 15 of the Consumer Product Safety Act. Reports of information which reasonably supports the conclusion that a product contains a defect which could create a substantial product hazard, as required under Section 15 of the Consumer Product Safety Act, should be made by calling (301) 492-6608 with concurrent notification, in writing, to: Division of Corrective Actions, U.S. Consumer Product Safety Commission, Washington, DC 20207.

**Adoption of  
Nongovernment  
Standards**

Amendments to the Consumer Product Safety Act, the Federal Hazardous Substances Act, and the Flammable Fabrics Act enacted by Congress in 1981 encourage reliance on voluntary standards developed by industry or other nongovernmental organizations to reduce risks of injury whenever possible, Sec. 15 U.S.C. 2058, 15 U.S.C. 1262(f), and 15 U.S.C. 1193(g).

**Qualification,  
Certification,  
or Calibration**

Product certification is specifically required by Section 14 of the Consumer Product Safety Act (CPSA) (15 U.S.C. 2063). Manufacturers or private labelers must issue certificates stating that their product meets any applicable consumer product safety standard issued under the CPSA. The Commission may also prescribe testing and labeling requirements by regulation under the authority of Section 14 of the CPSA.

**Committee  
Activity**

CPSC participates in a variety of nongovernment and government standardization committees. For specific information on committees with which the Commission is working contact either the Directorate of Engineering Sciences or the Directorate for Health Sciences.

**Standardization  
Activities**

The U.S. Consumer Product Safety Commission, an independent federal regulatory agency, was officially activated on May 14, 1973, to implement the Consumer Product Safety Act, P.L. 92-573. The Commission's primary goal is to substantially reduce injuries associated with consumer products. The Act granted broad authority to issue and enforce safety standards for more than 10,000 consumer products.

The Act specifically excludes certain products from the Commission's jurisdiction. Among the excluded products are foods, drugs, cosmetics, boats, aircraft, motor vehicles, and pesticides, most of which are regulated by other federal agencies.

Amendments to the Consumer Product Safety Act enacted in 1981 encourage the development of voluntary consumer product safety standards by industry. The Commission may adopt voluntary standards issued by nongovernmental organizations as mandatory standards or issue mandatory requirements independently. The Commission may ban products which present an unreasonable risk of injury if no safety standard is feasible. The Directorate for Engineering Sciences and the Directorate for Health Sciences serve as the focal points for standards development within CPSC.

**Availability**

U.S. Government Printing Office

**Keywords**

consumer products; safety; textiles; general;



DEPARTMENT OF DEFENSE

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE  
(PRODUCTION AND LOGISTICS) (OASD(P&L))

Defense Quality and Standardization Office (DQSO)  
Suite 1403  
5203 Leesburg Pike  
Falls Church, Virginia 22041-3466  
(703) 756-2340

<b>Authority</b>	Title 10, U.S. Code, Chapter 145, Cataloging and Standardization and implemented by DoD Directive 4120.3
<b>Implementation</b>	Military and federal specifications, standards handbooks, and engineering practices -- over 37,000. Commercial Item Descriptions (CIDs) -- over 3,900. Adoption of nongovernment standards -- over 4,900.
<b>Application</b>	Department of Defense (DoD) standardization documents are used as procurement documents for all types of equipment and commodities, as well as documents that provide selection criteria for items, equipment, engineering practices, etc., used in new design.
<b>Adoption of Nongovernment Standards</b>	By mid 1990, DoD had adopted over 4,900 nongovernmental standards to be used instead of military documents. These private sector documents were developed by a number of nongovernment standards organization including ASTM, SAE, AIA, UL, and others.
<b>Qualification, Certification, or Calibration</b>	DoD has developed over 1,100 Qualified Products Lists which describe products that have been examined, tested, and approved as meeting the requirements of applicable specifications.
<b>Committee Activity</b>	The Department of Defense participates in numerous intergovernmental and nongovernmental committees to share in the development of both policy and acquisition standardization documents.
<b>Standardization Activities</b>	The Defense Standardization Program (DSP) is a single, integrated defense-wide program to achieve optimum uniformity among the variety of systems, equipment, materials, engineering practices, operations, and manufacturing processes developed for or used by the DoD. Standards and specifications developed by (or in concert with) nongovernment standards groups are utilized to the maximum extent possible. The adoption of nongovernment standards avoids the preparation of duplicative or overlapping military documents. It is DoD policy to cooperate with the standards organizations operating in other government agencies, as well as, those in the private sector.

Standards and specifications are developed in approximately 120 offices of the DoD whose addresses are listed in the Standardization Directory, SD-1, which is available from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4, Section D, Philadelphia, Pennsylvania 19111-5094.

Also see citation for Interdepartmental Screw Thread Committee.

**Availability** Naval Publications and Forms Center, IHS, NSA, Global, and various other private distributors and libraries.

**Keywords** military equipment; industrial equipment; consumer products; materials; parts; food; clothing; packaging; construction; building; aerospace; medical devices; communications; general; defense;

## DEPARTMENT OF ENERGY

### ASSISTANT SECRETARY FOR DEFENSE PROGRAMS

DOE, DP-13.1  
Washington, DC 20545  
(301) 353-3169

**Authority** (1) The Atomic Energy Act of 1954  
(2) Energy Reorganization Act of 1974  
(3) Department of Energy (DOE) Reorganization Act of 1977

**Implementation** The implementation of standards activities for Defense Programs is through the policy statement of the Assistant Secretary for Defense Programs (ASDP) dated May 28, 1982, and the individual implementation plans prepared by the DOE field organizations. Responsible program officials also involve the use of standards noted under qualification, certification, or calibration.

**Application** Standards are used to qualify High Efficiency Particulate Air (HEPA) filters prior to use in DOE facilities.

**Standards Qualification, Calibration** The following program known as the HEPA filter program is an example of Defense Program requirements or (standards) for the qualification, certification, and calibration of a manufactured product important to Defense Program activities:

Calibration standard: F 3-45, Specification for HEPA filters used by DOE Contractors; Certification standard: F 3-43, Quality Assurance Testing for HEPA

filters and canisters; Monitoring and testing: NF 3-42, Operating policy for DOE Filter Test facilities, and NF 3-44, DOE HEPA Test Facilities Quality Control Plans

**Standardization Activities** The above referenced standards are developed and maintained internal to the Department.

**Availability** Referenced standards are internal DOE documents.

**Keywords** HEPA filters; nuclear energy;

DEPARTMENT OF ENERGY

BUILDING TECHNOLOGIES

Building Systems and Materials Division  
Room 5E-098  
Washington, DC 20585  
(202) 586-9445

**Authority** 42 U.S.C. 6831 et. seq., The Energy Conservation Standards for New Buildings Act of 1976, as amended, requires the Department of Energy (DOE) to issue voluntary performance standards for the design of new commercial, federal and non-federal buildings. Mandatory compliance with the standards is only required for the design of new federal buildings.

**Implementation** A draft voluntary guideline for energy conservation in manufactured housing was published by DOE and a Notice of Inquiry (NOI) requesting public review and comment was published in the Federal Register May 9, 1983 (48 FR 20866). On February 22, 1984; a draft guide of Affordable Housing Through Energy Conservation (49 FR 6537) was issued as an NOI in the Federal Register. On October 31, 1985; a Notice of Inquiry and public briefing (50 FR 45469) on Modification to Affordable Housing Through Energy Conservation was published in the Federal Register. On August 20, 1986; a Notice of Proposed Interim Rule and Public Hearings and Finding of No Significant Impact (FONSI) (54 FR 4538 et seq.) on proposed Energy Conservation Standards for New Federal Residential Buildings was published in the Federal Register. On May 6, 1987, a Notice of Proposed Rulemaking (NPR) (52 FR 17051 et seq.) was published in the Federal Register announcing DOE's intention to promulgate interim voluntary standards for new federal commercial and multi-family high rise residential buildings and also requesting public review and comment.

On August 25, 1988, the Final Interim Rule and Proposed Modification of Final Interim Rule (53 FR 32536) on Energy Conservation Mandatory Performance Standards for



New Federal Residential Buildings was published in the Federal Register. The proposed modifications came as a result of further research that was performed by DOE in response to public comment on the proposed interim standards. On January 30, 1989; the Interim Rule for Energy Conservation Voluntary Performance Standards for Commercial and Multi-Family High Rise Residential Building (54 FR 4538) was published in the Federal Register. These standards are mandatory for new federal buildings. On November 30 1989; the Preliminary Statement of Reasons for Adoption of Standby Loss Criteria for storage water heaters relative to the commercial standards (54 FR 49724) was published in the Federal Register.

**Application**

The guidelines for energy conservation in new manufactured housing, new non-federal residential, and new commercial buildings are expected to be implemented as a result of voluntary adoption by manufacturers, builders and state and local governments. The guidelines and standards will be applied to new federal buildings by regulations under the Federal Energy Management Program (10 CFR 436).

**Adoption of  
Nongovernment  
Standards**

The voluntary residential and federal mandatory commercial guidelines and standards that have been developed reference private standards developed by ANSI, ASTM, ASHRAE, and the Illuminating Engineering Society (IES). The mandatory federal residential guidelines and standards that have been developed do not directly reference private standards developed by ANSI, ASTM, ASHRAE, and the Illuminating Engineering Society (IES). However, these standards did influence the development of the federal standard.

**Committee  
Activity**

DOE staff participate in several relevant committees of ASHRAE and the American Institute of Architects.

**Standardization  
Activities**

DOE is involved in the preparation and review of the full range of guidelines and standards for energy conservation in new buildings. Relevant guidelines and standards established by nongovernment bodies are used, if appropriate.

**Availability**

DOE and U.S. Government Printing Office.

**Keywords**

energy conservation; energy efficiency; buildings; manufactured housing; energy;

## DEPARTMENT OF ENERGY

### BUILDING TECHNOLOGIES

Building Equipment Division, Room 5H-048  
Washington, DC 20585  
(202) 586-9123

Authority	42 U.S.C. 6291-6309, the Energy Policy and Conservation Act of 1975 (P.L. 940163), as amended by the National Energy Conservation Policy Act of 1978 (P.L. 95-619), the National Appliance Energy Conservation Act of 1987 (p.L. 100-12) and the National Appliance Energy Conservation Amendments of 1988 (P.L. 100-357), provides for implementation of energy efficiency test procedures and standards for at least 13 categories of major household appliances.
Implementation	Test procedures have been established for 13 categories of appliances in 10 CFR Part 430, Subpart B. The 13 categories of appliances are: refrigerators, refrigerator-freezers, and freezers; furnaces; central air conditioners and central air conditioning heat pumps; room air conditioners; water heaters; dishwashers; clothes washers; clothes dryers; direct heating equipment; pool heaters; kitchen ranges and ovens; television sets; and fluorescent lamp ballasts. Standards have been established, by legislation, for 12 of the 13 categories of appliances in 10 CFR Part 430, Subpart C.
Application	The established test procedures are required, under regulations issued by the Federal Trade Commission (FTC), to be used by manufacturers in the preparation of labels and other representations concerning the energy efficiency of covered products. In addition, the manufacturer's certification of compliance with a standard is to be based on manufacturer testing of covered products in accordance with the applicable test procedure. Selective government tests may be performed for enforcement purposes.
Adoption of Nongovernment Standards	The established test procedures adopt, by reference, some nongovernment test procedures; including, but not limited to, procedures established by ANSI, ASHRAE, ASTM, and the Association of Home Appliance Manufacturers (AHAM).
Qualification, Certification, or Calibration	Consumer product manufacturers are responsible for the application of the established test procedures, although FTC or DOE may perform independent tests to verify manufacturers claims.



Committee Activity	The appropriate staff of DOE and the National Institute of Standards and Technology (NIST) participate in several relevant committees of ASHRAE and the Air-Conditioning and Refrigeration Institute (ARI).
Standardization Activities	DOE, with the support of the NIST, is active in the preparation, review, and updating of energy efficiency test procedures for all 13 covered appliances. In addition, DOE in accordance with the law, reviews the standards on a regular basis to determine if updates are justified. With respect to the test procedures, every effort is made to utilize private consensus standards, if appropriate. Federal energy efficiency standards preempt State-established energy efficiency standards. States may apply to DOE for exemptions from this rule.
Availability	DOE and U.S. Government Printing Office
Keywords	energy conservation; energy efficiency; household appliances; buildings; consumer products; energy;

## DEPARTMENT OF ENERGY

### ENERGY INFORMATION ADMINISTRATION

Office of Statistical Standards (EI-70)  
 1000 Independence Avenue, SW  
 Washington, DC 20585  
 (202) 586-2222

Authority	Both the Federal Energy Administration Act and the Department of Energy Organization Act, which established the Energy Information Administration (EIA) as an independent statistical agency, require that the information collected by the agency be evaluated and assessed internally and that the collection methods used be audited. (See P.L. 93-275 and 95-91).
Implementation	To evaluate the data and procedures used to collect, process and publish the data, performance standards are needed. A standards program has existed since EIA's inception; however, in 1981 it was reorganized and resulted in the adoption of 19 standards and two orders on model documentation and model archiving.
Application	Standards implementation is monitored by the Office of Statistical Standards (OSS) through the various activities of the office, including the forms clearance process, pre-publication reviews, state-of-the-data reports, quality audits, and documentation reviews of data collection and processing systems. OSS monitors order implementation through reviews of



the documentation and model archival packages prior to release, and quality audits.

**Committee  
Activity**

OSS participates in pertinent committees of the Office of Management and Budget (OMB), the American Statistical Association, and other statistical organizations.

**Standardization  
Activities**

Twenty-four standards have been developed covering various aspects of data collection, processing and dissemination. They are divided into the following groups: interagency, data systems, data collection, and data presentation. Specific standards cover: the adoption of Federal Information Processing and OMB standards; standardized codes, abbreviations, and acronyms; contract clauses for data collection and processing; data systems development; non-response handling; respondent contact records; batch entry procedures; edit message handling; survey performance statistics; publication of energy statistics, revisions and estimates; data accuracy; graphs; nondisclosure; rounding ;freezing data files; and documentation of public use tapes and diskettes. The orders cover proper documentation of EIA models, procedures for preparing model archival packages, and uniform practices for the use of applications support software.

These mandatory standards and orders are intended to assure the quality and consistency of EIA's data and models, increase the efficiency and responsiveness to EIA's data users, and avoid duplication of effort.

These standards and orders will be modified and new ones developed as conditions warrant. (A new standard on model acceptance is currently being tested.) The primary focus is on ensuring compliance with the existing standards and orders and providing technical assistance to offices requesting it.

**Availability**

Energy Information Administration, Office of Statistical Standards (address above)

**Keywords**

statistics; data collection; data processing; data documentation; model documentation; data publication; model forecasting; energy;

DEPARTMENT OF ENERGY

ENVIRONMENT, SAFETY, AND HEALTH

Safety and Quality Assurance, Rm 7A-097  
1000 Independence Avenue, SW  
Washington, DC 20585  
(202) 586-4710

<b>Authority</b>	(1) Atomic Energy Act of 1954, as amended (2) Energy Reorganization Act of 1974 (3) Department of Energy Organization Act of 1977
<b>Implementation</b>	Prescribed and recommended Environment, Safety, and Health (ES&H) standards (approximately 300) are listed in Order DOE 5480.4, Attachments 1,2 and 3.
<b>Application</b>	Department of Energy (DOE) Headquarters ES&H program personnel appraise DOE field operations and contractors to evaluate conformance with the prescribed ES&H standards. DOE field operations personnel also evaluate DOE contractors to ascertain compliance with the standards. As appropriate, recommendations for improved conformance are made and ameliorative actions are implemented.
<b>Adoption of Nongovernment Standards</b>	Approximately 65 nongovernment ES&H standards have been adopted as prescribed standards and approximately 135 nongovernment ES&H standards have been adopted as recommended standards. These are primarily from ANSI, NFPA, IEEE, and ANS.
<b>Committee Activity</b>	American National Standards Institute, American Nuclear Society, and National Fire Protection Association
<b>Standardization Activities</b>	Adoption of appropriate voluntary standards for use in DOE activities.
<b>Availability</b>	U.S. Department of Energy Office of Quality and Safety Programs (EH-32) Room G-140, GTN Building 19901 Germantown Rd. Germantown, MD 20545
<b>Keywords</b>	environment; safety; health; nuclear; occupational; emergency; fire; transportation; reactor; explosives; energy;

## ENVIRONMENTAL PROTECTION AGENCY

### ADMINISTRATOR

401 M Street, SW, Room W1200  
Washington, DC 20460  
(202) 382-4700 FAX: (202) 382-7883

#### Authority

- (1) Clean Air Act, P.L. 88-206
- (2) Clean Water Act, P.L. 92-500
- (3) Comprehensive Environmental Response Compensation and Liability Act (CERCLA), P.L. 96-510
- (4) Federal Food, Drug and Cosmetic Act, Stat. 1040
- (5) Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), P.L. 92-516
- (6) Marine Protection, Research and Sanctuaries Act, P.L. 92-532
- (7) Resource Conservation and Recovery Act (RCRA), P.L. 94-580
- (8) Safe Drinking Water Act, P.L. 93-523
- (9) Toxic Substances Control Act (TSCA), P.L. 94-469
- (10) Uranium Mill Tailings Radiation Control Act, P.L. 95-604
- (11) Plus amendments thereto and other acts not listed
- (12) National Environmental Policy Act, (P.L. 91-190)
- (13) Noise Control Act, (P.L. 92-574)
- (14) Medical Waste Tracking Act, (P.L. 100-582)
- (15) Asbestos Hazard Emergency Response Act, (P.L. 99-519)
- (16) Asbestos Information Act, (P.L. 100-577)
- (17) Asbestos School Hazard Abatement Act, (P.L. 98-377)
- (18) Indoor Radon Abatement Act, (P.L. 100-551)

#### Implementation

Environmental Protection Agency (EPA) standards are published in Part 40 of the Code of Federal Regulations (40 CFR). Some standards are mandatory, others voluntary. State and local governments usually have the right to impose standards that are more stringent than those EPA sets.

#### Application

Standards are applied in various ways including individual permits establishing emissions or effluent limits, product registration, state and local implementation plans, direct reporting to EPA, recordkeeping, on-site inspections, voluntary adoption, etc.

#### Adoption of Nongovernment Standards

40 CFR refers readers to nongovernmental standards it accepts in lieu of incorporating the standards in the CFR.

#### Qualification, Certification, or Calibration

EPA samples products and the environment for compliance with its standards. Examples include monitoring motor vehicle emissions, wastewater discharges, new chemicals



and pesticides, land fills, ambient air, and drinking water systems. The Agency also reviews manufacturers' requests to label products as "certified to EPA standards."

#### Committee Activity

Advisory Commission on Intergovernmental Relations;  
Council on Environmental Quality;  
Interagency Testing Committee (ITC);  
National Air Pollution Control Techniques Advisory  
Committee;  
National Drinking Water Advisory Council;  
Environmental Committee of the Organization for  
Economic Cooperation and Development;  
Science Advisory Board;  
U.S. Canada International Joint Commission (on air and  
water);  
Stratospheric Ozone Protection Advisory Committee;  
Volatile Organic Chemical Equipment Leak Rule  
Negotiated Rule Making Committee;  
Biotechnology Science Advisory Committee;  
FIFRA Scientific Advisory Panel;

#### Standardization Activities

EPA environmental standards apply to individuals; businesses; federal, state and local governments; and other organizations. They are intended to ensure clean air and water, safe containment of toxic wastes, protection from excessive radiation, protection of the nation's waters for fish/wildlife and human use, undue exposure to toxic substances, etc. The following offices are directly involved in standards development and application: Office of Air Radiation, (202)382-7400; Office of Pesticides and Toxic Substances, (202)382-2902; Office of Research and Development, (202)382-7676; Office of Solid Waste and Emergency Response, (202)382-4610; Office of Water, (202)382-5700. These Offices exercise responsibility for standards dealing with water quality, solid and hazardous wastes, pesticides and toxic substances, ambient air, research and development practices, and radiation. The Administrative Procedures Act mandates publication of proposed rules (standards) followed by public comment/hearings prior to promulgating the rule. Usually, once a standard is set, states and other jurisdictions must submit, by a certain date, implementation plans for meeting these standards or face the alternative of having EPA write and impose its own plan.

#### Availability

Part 40 of the Code of Federal Regulations, available from the Government Printing Office, contains all Agency standards; EPA also publishes both the standards and resulting implementation plans in the Federal Register.

**Keywords** environment; air; water; radiation; pollution; toxic substances; hazardous waste; pesticides; chemicals; materials; sanitation;

**EXECUTIVE OFFICE OF THE PRESIDENT**

**OFFICE OF THE U.S. TRADE REPRESENTATIVE**

GATT Affairs Division, Room 513  
600 Seventeenth Street, NW  
Washington, DC 20506  
(202) 395-3063 FAX: (202) 395-3911

**Authority** Title IV of the Trade Agreements Act of 1979 (P.L. 96-39, July 26, 1979) on approval of the Agreement on Technical Barriers to Trade (Standards Code) which sets forth disciplines on standards-related activities. USTR does not itself develop standards, test methods or rules of certification.

**Implementation** Through the Trade Policy Committee structure, chaired by the Office of the U.S. Trade Representative (USTR), U.S. Government coordination of the implementation and administration of the Standards Code is achieved. USTR works primarily with the Departments of Agriculture, Commerce, and State in this area.

**Application** The Trade Policy Staff Committee (TPSC) Subcommittee on Standards meets regularly to approve U.S. positions for meetings of the Committee on Technical Barriers to Trade (established by the Standards Code). The TPSC also approves positions for bilateral standards-related discussions with governments who are signatories to the Agreement on Technical Barriers to Trade.

**Adoption of Nongovernment Standards** USTR coordinates with the private sector through the Industry Functional Advisory Committee on Standards Trade Policy Matters (IFAC-2) and the Trade Policy Staff Committee (TPSC) Subcommittee on Standards, for coordination of trade policy within the U.S. government.

**Qualification, Certification, or Calibration** USTR coordinates closely with nongovernmental certification bodies directly and through the IFAC on Standards Trade Policy Matters.

**Committee Activity** USTR directly participates in the American National Standards Institute's International Standards Council, and the American Society for Testing and Materials, Council on International Standardization.

**Keywords** Standards Code; GATT; international trade; business; general; 1979 Trade Act;



# FEDERAL COMMUNICATIONS COMMISSION

## OFFICE OF ENGINEERING AND TECHNOLOGY

1919 M Street, NW  
Room 7002B, MST-1  
Washington, DC 20554  
(202) 632-7060 FAX: (202) 653-5402

<b>Authority</b>	The Communications Act of 1934, as amended (47 U.S.C. 151) established the Federal Communications Commission (FCC) to regulate interstate and foreign commerce in communications by wire and radio in the public interest.
<b>Implementation</b>	The FCC rules and regulations are contained in Title 47 CFR. The standards are located in the various Parts: 0, 1, 2, 5, 13, 15, 17, 18, 19, 21, 22, 23, 25, 31, 33, 34, 35, 41, 42, 43, 51, 52, 61, 62, 63, 64, 66, 67, 68, 73, 74, 76, 78, 81, 83, 87, 90, and 94.
<b>Application</b>	Since there are many different kinds of standards throughout the rules, various methods are used to enforce the rules or standards. The methods used are: on-site inspections, FCC laboratory testing, review of test data submitted by applicants, and self verification.
<b>Adoption of Nongovernment Standards</b>	The Commission has adopted nongovernment standards and will continue to do so whenever it is in the public interest. These standards are referenced in the appropriate parts of the rules, and in many cases voluntary standards become mandatory standards when referenced in the rules and regulations.
<b>Qualification, Certification, or Calibration</b>	Applicants wishing to establish a radio station, whether it be a broadcast, private, common carriers, or experimental, must submit information showing compliance with the rules. If the requirements (standards) are met, a license is issued. As of 1988 the Commission has issued approximately 3 million radio licenses. The Commission also has STGT equipment authorization programs which issue equipment approvals. The Commission issues approximately 6,000 equipment approvals each year.
<b>Committee Activity</b>	The Commission participates in pertinent organizations and committees which deal with telecommunications standards. Some of these are: Institute of Electrical and Electronics Engineers, American National Standards Institute, Electronic Industries Institute, Radio Technical Commission for Aeronautics, Radio Technical Commission for Maritime Services, International Radio



Consultative Committee, CISPR, Safety of Life At Sea Convention, etc.

**Standardization  
Activities**

The Commission participates in international and national standards organizations developing communication systems and equipment. The Commission provides technical analysis and testing of systems and equipment.

**Availability**

U.S. Government Printing Office.

**Keywords**

frequency allocations; radio frequency interference; electromagnetic compatibility; communications;

**FEDERAL TRADE COMMISSION**

**BUREAUS OF COMPETITION (BC) AND CONSUMER PROTECTION (BCP)**

Licensed Occupations, Bureau of Competition  
Sixth Street and Pennsylvania Ave., NW, Room 3037 PA  
Washington, DC 20580  
(202) 326-2904

Service Industry Practices, Bureau of Consumer  
Protection  
Sixth Street and Pennsylvania Ave., NW, Room 294  
Washington, DC 20580  
(202) 326-3303

**Authority**

Federal Trade Commission Act, S5, 15 U.S.C. S45.  
Section 5 of the Federal Trade Commission Act declares unfair methods of competition, and unfair or deceptive acts and practices, in or affecting commerce, to be unlawful.

**Adoption of  
Nongovernment  
Standards**

In preventing unfair or deceptive acts or practices in commerce, the Federal Trade Commission (FTC) may reference standards in trade regulation rules or guides. For example, the Commission incorporated several nongovernment standards by reference in its rule relating to labeling and advertising of home insulation (R-value rule, 16 CFR, part 460).

**Standardization  
Activities**

The Commission's Bureau of Competition (BC) and Bureau of Consumer Protection (BCP) investigate standards and certification activities that may unreasonably result in a substantial lessening of competition in violation of the Federal Trade Commission Act. One example would be allegations that a standard or a seal of approval program unreasonably excluded innovative products from the marketplace. They would also investigate allegations that standards or seals of approval are being used deceptively in the sale of products. If the

used deceptively in the sale of products. If the Commission finds reason to believe that the law may have been violated, it may commence a law enforcement action to enjoin such anti-competitive or deceptive activities and to seek such other relief as may be appropriate. The Commission may, under appropriate circumstances: issue advisory opinions as to the legality of standards or certification practices presented for review; participate in relevant interagency or intergovernmental committees; present its views to appropriate legislative, judicial, or industry entities concerning specific standards or certification issues.

**Keywords** antitrust; restraint of trade; anti-competitive practices; competition; unfair methods; innovation; deception; business; general;

## GENERAL SERVICES ADMINISTRATION

### INFORMATION RESOURCES MANAGEMENT

Office of Information Resources Procurement  
18th and F Streets, NW, Room G-44  
Washington, DC 20405  
(202) 501-1072

**Authority** 1. Public Law 89-306: The Brooks Act  
2. Public Law 99-500: The Paperwork Reduction Reauthorization Act of 1986

**Implementation** The Federal Information Resources Management Regulation (FIRMR) establishes federal standards provisions and requirements for the acquisition of ADP and telecommunications resources. The Federal ADP and Telecommunications Standards Index provides terminology to incorporate standards in solicitation documents. It also provides a catalogue of all American National Standards (ANS), Federal Information Processing Standards (FIPS), and Federal Standards (FED-STD).

**Application** Federal acquisition of ADP and telecommunications resources must be in compliance with established federal standards provisions of the FIRMR.

**Committee Activity** The GSA is an active voting member of the X3: Information Processing System; ANSI Standards Committee T1, Telecommunications; Federal Telecommunications Standards Committee (FTSC); and the ANSI Information Systems Standards Board (ISSB).

**Standardization Activity** The GSA serves as a focal point for the government-wide Federal Information Processing and Telecommunications



Standards Program. GSA participates directly in the development of federal standards, and develops terminology to incorporate standards in solicitation documents for acquisition and use of ADP and telecommunications resources. GSA provides advice and assistance to federal agencies and private sector personnel on information systems and telecommunications standards.

**Availability** The Federal ADP and Telecommunications Standards Index is sold by the Government Printing Office.

**Keywords** information processing; telecommunications; terminology;

## GENERAL SERVICES ADMINISTRATION

### FEDERAL SUPPLY SERVICE

Office of Commodity Management, Room 710  
Crystal Mall, Building 4  
Washington, DC 20406  
(703) 557-7901

**Authority** The Federal Standardization Program was developed in compliance with the Federal Property and Administrative Services Act of 1949, 63 STAT. 377, as amended. The program provides for coordination of civil and military standardization functions, so as to avoid unnecessary duplication, pursuant to the Act and in consonance with the Defense Cataloging and Standardization Act (Secs. 24512456, Title 10, U.S.C., superseding P.L. 436).

**Implementation** 41 CFR 101-29 describes the standardization program under Federal Product Descriptions. Included are federal specifications, standards, commercial item descriptions, purchase descriptions, and brand-name purchase descriptions. Also included in the program are Qualified Products Lists (QPL's).

**Application** Federal product descriptions shall be used by all federal agencies in the procurement of supplies and services covered by such descriptions, except as provided in 41 CFR 101-29.402 and 41 CFR 101-29.403.

**Adoption of Nongovernment Standards** By the end of 1982, the Federal Supply Service (FSS) had adopted approximately 300 nongovernment standards. Approximately 900 nongovernment documents are invoked by reference. The majority of these are standards developed by American Society for Testing and Materials (ASTM), American National Standards Institute (ANSI), Society of Automotive Engineers (SAE), and Underwriters Laboratories (UL).



**Qualification,  
Certification,  
or Calibration**

The General Services Administration (GSA) Office of Quality and Contract Administration handles the inspection and testing, as necessary, of supplies procured under GSA contracts. Through the five regional control divisions and the one regional laboratory, this program provides assurance that material supplied is in compliance with contract specifications.

**Committee  
Activity**

The Federal Supply Service participates in pertinent committees of ASTM and ANSI. In addition, FSS personnel are directly involved in work with 15 other technical organizations.

**Standardization  
Activities**

GSA is responsible for establishing policies and procedures, in coordination with other agencies, for the preparation, coordination, approval, issuance, and maintenance of product descriptions in the federal series.

FSS issues and maintains, on a current status, the Federal Standardization Handbook. The Handbook sets forth operating procedures and applicable definitions used in the development of federal product descriptions under the Assigned Agency Plan described therein.

FSS also promulgates and maintains, on current status, the Index of Federal Specifications, Standards, and Commercial Item Descriptions. The Index lists federal product descriptions which have been printed and distributed, including those which are mandatory for use by all federal agencies and identifies the sources from which these documents may be obtained. There are approximately 6,000 federal product descriptions in use, of which 50 percent have been assigned to other agencies.

**Availability**

GSA Business Service Center, 7th and D Streets, SW, Washington, DC 20407 (202) 472-1804 or any of the other GSA Business Service Centers.

**Keywords**

federal product descriptions; standards; specifications; commercial item descriptions; qualified products lists; nongovernment documents; general;

**GENERAL SERVICES ADMINISTRATION**

**PUBLIC BUILDING SERVICE**

Office of Design and Construction, Room 3318  
Eighteenth & F Streets, NW  
Washington, DC 20405

(202) 501-1888

Authority	The Architectural Barriers Act of August 12, 1968, (Public Law 90-480, 1976 amendment, Public Law 94-541)
Implementation	The General Services Administration is required as one of the four standard-setting agencies, to "prescribe standards for the design construction, and alteration of buildings (other than residential structures subject to this Act and buildings, structures, and facilities of the Department of Defense and of the United States Postal Service subject to this Act) to insure whenever possible that physically handicapped persons will have ready access to, and use of, such buildings."
Application	The General Services Administration, (GSA) issued PBS, PCD, Design Guide 6, GSA Accessibility standard, on October 14, 1980. GSA and the Department of Housing and Urban Development, the Department of Defense, and the United States Postal Service jointly published the Uniform Federal Accessibility Standards on August 7, 1984 which sets standards to insure that certain buildings financed with federal funds are so designed and constructed as to be accessible to the physically handicapped.
Adoption of Nongovernment Standards	After passage of the Architectural Barriers Act, GSA adopted "Specifications for Making Building and Facilities Accessible to, and Usable by, the Physically Handicapped" ANSI 117.1.
Committee Activities	GSA is a member of the Architectural and Transportation Barriers Compliance Board, 1111 18th Street, NW, Washington, DC 20036 (202) 653-7834.
Standardization Activities	GSA develops, publishes and updates accessibility standards to assure that all building designs, constructed, altered, increased by an addition, or leased with federal funds are accessible and usable by handicapped individuals. The Administrator also has the authority to waive or modify those standards on a case-by-case basis.
Availability	The Uniform Federal Accessibility Standards are available, free of charge from GSA or the Architectural and Transportation Barriers Compliance Board.
Keywords	building; construction; general; social welfare; access; physically handicapped;

DEPARTMENT OF HEALTH AND HUMAN SERVICES

CENTER FOR DISEASE CONTROL

National Institute for Occupational Safety and Health  
1600 Clifton Road NE  
Atlanta, Georgia 30333  
(404) 639-3771

**Authority**

- (1) 29 U.S.C. 651-678, December 29, 1970, Occupational Safety and Health Act (OSH Act), to assure safe and healthful conditions of working men and women; by authorizing enforcement of standards developed under the OSH Act; and for other purposes.
- (2) 30 U.S.C. 801, 811, 842(h), December 30, 1969, Federal Coal Mine Health and Safety Act of 1969, as amended by the Federal Mine Safety and Health Act of 1977, to protect the health and safety of miners.

**Implementation**

Recommended Occupational Safety and Health Standards -- developed by the National Institute for Occupational Safety and Health (NIOSH) Division of Standards Development and Technology Division, 4676 Columbia Parkway, Cincinnati, Ohio 45226, telephone (513) 533-8302. Approximately 120 voluntary standards have been developed in the form of criteria documents dealing with control of toxic substances in the workplace. These criteria documents are submitted by NIOSH as recommendations to the Department of Labor (DOL) for use in the development of mandatory standards by DOL's Occupational Safety and Health Administration and DOL's Mine Safety and Health Administration.

Performance Standard for Respirators -- developed by NIOSH's Safety Research Division, 944 Chestnut Ridge Road, Morgantown, West Virginia 26505, telephone (304) 291-4595. A mandatory standard under 30 CFR, Part 11 establishes a performance standard and the procedures for testing and certifying personal protective respiratory equipment.

**Application**

The Department of Labor is responsible for the promulgation and enforcement of occupational health and safety standards.

**Qualification,  
Certification  
or Calibration**

NIOSH's Safety Research Division's Certification Branch is responsible for testing and certifying personal respiratory protective equipment based upon applications submitted by the manufacturers of such equipment.



**Standardization  
Activities**

NIOSH employees actively participate in voluntary standard development activities of ANSI, ASTM, and American Conference of Governmental Industrial Hygienists (ACGIH).

**Keywords**

respiratory protective equipment; toxic substances; workplace standards; safety; public health;

**DEPARTMENT OF HEALTH AND HUMAN SERVICES**

**FOOD AND DRUG ADMINISTRATION**

Office of Regulatory Affairs, Room 14-85  
5600 Fishers Lane  
Rockville, Maryland 20857  
(301) 443-1594

**Authority**

- Federal Food, Drug, and Cosmetic Act, as amended (21 U.S.C. 321-392)
- Public Health Service Act, as amended (42 U.S.C. 262, 263, 263b-263n, and 361), (42 U.S.C. 264 and 13951)
- Fair Packaging and Labeling Act (15 U.S.C. 1451-1461)
- Federal Import Milk Act (P.L. 69-625)
- Tea Importation Act (21 U.S.C. 41-50)
- Federal Caustic Poison Act (Note: Section 19 of the Federal Hazardous Substances Act (15 U.S.C. 401) repealed the Federal Caustic Poison Act except for any "dangerous caustic or corrosive substance" as defined by the Federal Caustic Poison Act which is subject to the Federal Food, Drug, and Cosmetic Act and not a "hazardous substance" under the Federal Hazardous Substances Act.)
- Orphan Drug Act (P.L. 97-414)
- Drug Price Competition and Patent Term Restoration Act (P.L. 98-417)
- Drug Exports Amendments Act of 1986 (P.L. 99-660)
- Prescription Drug Marketing Act of 1987 (P.L. 100-293)
- Anti-Drug Abuse Act of 1988 (P.L. 100-690)
- Saccharin Study & Labeling Act
- Federal Anti-Tampering Act

**Implementation**

The Food and Drug Administration (FDA) Center for Food Safety and Applied Nutrition, Office of Compliance, 200 C Street, SW, Washington DC 20204, (202) 485-0160, is responsible for:

- Color Additives -- Approximately 200 mandatory regulations under 21 CFR, Parts 73, 74, and 82 prescribe identity, specifications, and other conditions under which color additives may be safely used in food, drugs, cosmetics, and devices.

- Food Additives -- Approximately 300 mandatory regulations under 21 CFR, Parts 172-179 prescribe identity, specifications, and other conditions under which food additives may be safely used.
- GRAS Substances -- Approximately 93 mandatory regulations under 21 CFR, Parts 184 and 186 prescribe identity, specifications, and other conditions under which substances are generally recognized as safe (GRAS) as ingredients added directly or indirectly to human food.
- Food Standards -- Approximately 293 mandatory regulations under 21 CFR, Parts 131 through 169 prescribe standards of identity, quality, and fill of container for 21 different classes of foods. Most of these are standards of identity which specify the basic composition of the food.
- Other Food Regulations -- A number of other miscellaneous mandatory regulations concerning food for human consumption appear under 21 CFR, Subchapters A, B, and L (e.g., general labeling requirements under Subpart B of 21 CFR, part 1; food labeling under 21 CFR, Part 101; 21 CFR Part 104 Nutritional Quality Guidelines for Food; quality standards for foods with no standards of identity under 21 CFR, Part 103; Standards of Quality for Bottled Water under 21 CFR, Part 104; infant formula quality control procedures under 21 CFR, Part 105; Foods for Special Dietary Uses under 21 CFR, Part 106; regulations under the Federal Import Milk Act (21 CFR, Part 1220); and Interstate Conveyance Sanitation (21 CFR, Part 1250), Part 108; Emergency Permit Control under 21 CFR, Part 109; Unavoidable Contaminants in Foods under 21 CFR, Part 110; Good manufacturing Practices in Human Food under 21 CFR, Part 113; Thermally Processed Low-acid foods under 21 CFR, Part 114; Acidified foods under 21 CFR, Part 124; Processing and Bottling of Bottles Drinking Water under 21 CFR.
- Cosmetic Regulations -- Approximately 16 mandatory regulations under 21 CFR, Parts 701 and 740 prescribe standards for cosmetic labeling.
- Federal Caustic Poison Act -- Approximately 27 mandatory regulations under 21 CFR, Part 1230 prescribe labeling requirements, methods of analysis, and other conditions for enforcement of the Federal Caustic Poison Act.
- Control of Communicable Diseases -- Approximately

19 mandatory regulations under 21 CFR, Part 1240 concern control of communicable diseases.

FDA's Center for Drug Evaluation and Research, 5600 Fishers Lane, Bethesda, Maryland 20857, (301) 443-2894 and Center for Biologics Evaluation and Research, 9000 Rockville Pike, Bldg. 29, Bethesda, Maryland 20892, (301) 496-3556, develop standards and regulations for:

- Biological Products Applicable to the Prevention, Treatment or Cure of Diseases or Injuries of Man -  
-In addition to the regulations at 21 CFR Subchapter C and D that apply to all products, including biological products, that are applicable to the prevention, treatment or cure of diseases or injuries of man (drug products), mandatory regulations for biological products exist at Subchapter F.
- Insulin and Antibiotics -- Approximately 707 mandatory regulations under 21 CFR, Parts 429-460 prescribe standards, tests, and methods of assay for insulin and antibiotic drugs.
- Over-the-Counter (OTC) Drugs -- Ten mandatory regulations (monographs) under 21 CFR, Parts 331, 332, 333, 336, 338, 340, 341, 344, 349 and 357 prescribe specifications and conditions under which therapeutic categories of OTC drugs are generally recognized as safe and effective. Regulations under 21 CFR Part 310 describe conditions under which certain therapeutic categories of OTC drugs are not generally recognized as safe and effective. Regulations are under development for approximately 34 additional therapeutic categories of OTC drugs.
- Biological Product -- Approximately 325 mandatory regulations appear under 21 CFR, Subchapter F concerning labeling, standards, testing, and other conditions under which bacterial and viral vaccines, toxoids, antitoxins, blood, and blood derivatives, allergenic products, and other biological products can be safely used.

FDA's Center for Devices and Radiological Health, Office of Standards and Regulations, 5600 Fishers Lane, Rockville, Maryland 20857, (301) 443-3403, prepares:

- Procedures for Performance Standards Development -- Approximately 13 mandatory regulations under 21 CFR, Part 861 prescribe the procedures for initiation, development, establishment, amendment, and revocation of performance standards applicable



to devices intended for human use.

- Device Classification Procedures -- Approximately 14 mandatory regulations under 21 CFR, Part 860 prescribe the criteria and procedures governing the classification and reclassification of devices intended for human use into one or more of three regulatory classes: class I (general controls), class II (performance standards), and class III (premarket approval).
- Device Classification Regulations -- FDA is developing mandatory regulations to classify all medical devices intended for human use into one or more of these three classes depending upon the regulatory controls needed to provide reasonable assurance of their safety and effectiveness. Approximately 1,613 mandatory device classification regulations appear under 21 CFR, Parts 864-892 (approximately 70 additional mandatory device classification regulations have been published as proposed rules but have not yet been published as final regulations).
- Other Device Regulations -- A number of other miscellaneous mandatory device regulations appear under 21 CFR, Subchapter H (e.g., general labeling requirements under 21 CFR, Part 801; exemptions from federal preemption of state and local medical device requirements under 21 CFR, Part 808; in-vitro diagnostic products for human use under 21 CFR, Part 809; investigational device exemptions under 21 CFR, Part 812; and investigational exemptions for interocular lenses under 21 CFR, Part 813).
- Performance Standards for Ionizing Radiation Emitting Products -- Approximately 6 mandatory regulations under 21 CFR, Part 1020 prescribe standards to control the emission of radiation from microwave ovens.
- Performance Standards for Light Emitting Products -- Approximately 4 mandatory regulations under 21 CFR, Part 1040 prescribe standards to control the emission of radiation from lasers, sunlamps, and other light-emitting products.
- Performance Standards for Sonic, Infrasonic, and Ultrasonic Radiation-Emitting Products -- One mandatory regulation under 21 CFR, Part 1050 prescribes standards to control the emission of radiation for ultrasonic therapy products.

- Other Radiological Health Regulations -- A number of other mandatory and voluntary regulations appear under 21 CFR, Subchapter J (e.g., general provisions and radiation protection recommendations under 21 CFR, Part 1000; importation of electronic products under 21 CFR, Part 1005; performance standards for electronic products: general under 21 CFR, Part 1010).

FDA's Center for Veterinary Medicine, 5600 Fishers Lane, Rockville, Maryland 20857, (301) 443-3450, is responsible for:

- Food Additives Permitted in Feed and Drinking Water of Animals -- Approximately 49 mandatory regulations under 21 CFR, Part 573 prescribe identity, specifications, and other conditions under which food additives may be solely used in feed and drinking water of animals.
- New Animal Drugs -- Approximately 633 mandatory regulations under 21 CFR, Parts 520-555 and 558 prescribe identity, specifications, testing, and other conditions for safe use of new animal drugs.
- Tests for Specific Antibiotic Dosage Forms -- Approximately 18 mandatory regulations under 21 CFR, Part 536 prescribe tests for specific antibiotic dosage forms of new animal drugs.
- Other Animal Drugs, Feeds, and Related Products Regulations -- A number of other miscellaneous mandatory regulations concerning animal drugs, feeds, and related products appear under 21 CFR, Subchapter E (e.g., animal food labeling under 21 CFR, Part 501; and tolerances for residues of new animal drugs in food under 21 CFR, Part 556).

## Application

To determine that FDA-regulated products are in compliance with statutes, FDA conducts inspections of manufacturing establishments (17,740 in FY89), collects and analyzes domestic samples (26,996 in FY89) and import samples (44,936 in FY89), and conducts wharf examinations of products in import channels of trade (102,617 in FY89). Samples collected are analyzed at FDA field and headquarters laboratories.

## Adoption of Nongovernment Standards

By the end of 1989, FDA had adopted more than 300 nongovernment standards. The majority of these are ASTM, Association of Official Analytical Chemists (AOAC), Food Chemicals Codex, and American Public Health Association. In addition to these nongovernment standards, 21 U.S.C. 352(b) and 352(g) mandate that FDA

use standards in an "official compendium" such as the United States Pharmacopeia.

**Qualification,  
Certification,  
or Calibration**

Color additives (unless the color is specifically exempted) and insulin are batch-certified by FDA prior to marketing. Most biological products are required by regulation to be tested by FDA prior to release of each lot of product. With few exceptions (e.g. foods, cosmetics), most FDA-regulated products are subject to preclearance by FDA before they may be marketed.

**Committee  
Activity**

More than 150 FDA staff members participate with 29 standards organizations in more than 270 standardization activities. For example:

ANSI (13 committees, 16 subcommittees)  
ASTM (5 committees, 52 subcommittees)  
AAMI (27 committees, 11 subcommittees)  
ASME (1 committee, 3 subcommittees)  
USP (6 subcommittees)  
NCCLS (10 committees, 24 subcommittees)  
American College of Radiology (6 committees)  
IEEE (4 committees, 7 subcommittees)  
Acoustical Society of America (2 committees)  
IEC (4 technical committees, 23 subcommittees)  
ISO (7 technical committees, 13 subcommittees)  
NCCLS (11 committees, 34 subcommittees)  
International Organization for Legal Metrology (OIML),  
U.S. Technical Advisory Group for SP26  
Codex Alimentarius (FAO/WHO) (16 committees)

**Standardization  
Activities**

The broad scope of FDA's involvement in standardization activities is reflected by the programmatic CFR listings above under Implementation and the partial listing under Committee Activities. Since May 27, 1975, FDA has regulated and encouraged participation of its employees in outside standard setting activities (the current regulation appears under 21 CFR 10.95). It is FDA policy to use and cite in its regulations nongovernment standards whenever possible and consistent with FDA's statutory mandates to protect the public health.

**Availability**

FDA regulations are published in the Code of Federal Regulations available from the Government Printing Office. Each FDA regulation that incorporates by reference test methods or other materials also lists the complete address from which copies may be obtained.

**Keywords**

food; food additives; color additives; cosmetics; human drugs; animal drugs; biologics; medical devices; radiation protection; electronic product radiation; safety; public health; consumer products;



DEPARTMENT OF THE HEALTH AND HUMAN SERVICES

HEALTH CARE FINANCING ADMINISTRATION

200 Independence Avenue, SW  
Washington, DC 20201  
(202) 245-6726

Authority	Titles XVIII and XIX of the Social Security Act.
Implementation	42 CFR, Subchapters B and C. Regulations addressing the survey and certification of health care facilities wishing to participate in the Medicare and Medicaid programs.
Application	State survey agencies and Health Care Financing Administration (HCFA) regional offices apply procedures set forth in these regulations in determining a facility's eligibility for certification and in making certification decisions.
Committee Activity	HCFA works closely with Association of State and Territorial Health Officials, Association of Health Facility Licensure and Certification Directors, and various consumer and industry groups in developing its standards.
Standardization Activities	HCFA standards apply to the survey and certification of all health care facilities wishing to participate in the Medicare and/or Medicaid programs. Having standard procedures assures national uniformity in approving facilities for Medicare/Medicaid reimbursement.
Availability	Standards are available from the Government Printing Office and Health Care Financing Administration's Office of Public Affairs.
Keywords	Medicare; Medicaid; survey and certification; health care providers and suppliers; state survey agencies; health care; facilities management; insurance;

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

ASSISTANT SECRETARY FOR HOUSING - FEDERAL HOUSING COMMISSIONER

Manufactured Housing and Construction Standards Division  
Office of Manufacturer Housing and Regulatory Functions  
451 Seventh Street, SW, Room 9158  
Washington, DC 20410-8000  
(202) 708-2210

## Authority

- (1) Minimum Property Standards (MPS) - Sec. 7(d) of the Department of Housing and Urban Development Act of 1965, 79 Stat. 670; 42 U.S.C. 3535 (d); Sec. 211, 52 Stat. 23; 12 U.S.C. 1715b and 81 Stat. 54; 5 U.S.C. 522(a).
- (2) Technical Suitability of Products Program - Sec. 521 of the National Housing Act was added by Sec. 216 of the Housing and Urban Development Act of 1965, Public Law 89-117.
- (3) Manufactured Housing - Section 7(d), Department of Housing and Urban Development Act, 42 U.S.C. 3535(d), Title VI, Housing and Community Development Act of 1974 (42 U.S.C. 5401).

## Implementation

All standards are codified as regulations and are mandatory. The MPS, which include as supplements product acceptance under Sec. 521 and the Department of Housing and Urban Development (HUD) Building Products Certification Programs, are incorporated by reference in 24 CFR, Part 200 Subpart S, Sections 200.925, 200.927, 200.929, 200.931, 200.933, 200.935 with an Appendix. Manufactured Home Construction and Safety Standards are in 24 CFR Parts 3280, 3282 and 3283.

## Application

Design drawings are reviewed for compliance, and inspectors visit site development and manufacturing facilities for construction or manufacturing compliance. The MPS are only applicable for HUD mortgage or loan insurance and low-rent public housing programs. The Manufactured Home Standards are applicable for all manufacture homes which are designed to be used as dwelling units.

## Adoption of Nongovernment Standards

Nongovernment standards are invoked by reference or adoption whenever possible. There are approximately 500 nongovernment standards referenced in the Minimum Property Standards and supplemental standards issued under the Technical Suitability of Products Program. The Manufactured Housing Program Standards contain 200 nongovernment standards. Principal developers of these standards include the American Society for Testing and Materials (ASTM), American National Standards Institute (ANSI), American Concrete Institute (ACI), American Plywood Association (APA), American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), and Architectural Aluminum Manufacturers Association (AAMA).

## Qualification, Certification, or Calibration

Proponents of new building products or systems submit technical data for analysis under the Technical Suitability of Products Program. Upon a determination of suitability, a Materials Release is issued for



products and a Structural Engineering Bulletin for building systems. These documents supplement the MPS, and include these products for national acceptance. Use of Materials Bulletins are issued either as an interim HUD standard for a particular class of like products, such as carpet, or as a means of promulgating a certification program for a product. There are currently Engineering Bulletins, Materials Releases, Use of Materials Bulletins, and 13 Certification Programs in effect.

Under the Manufactured Housing Program all designs, quality assurance manuals, product certifications and listings are approved by design approval agencies, accepted by HUD. All manufactured homes are inspected by in-plant inspection agencies for conformance to the approved design, and federal standards. Average yearly production of manufactured homes is 250,000 homes.

HUD encourages industry enforcement and self certification for those materials covered by product standards and federal specifications. It also requires third party certification in conformance with criteria set out in 24 CFR 200.935 for lumber, plywood, carpet, windows, plastic bathtubs, etc.

#### **Committee Activity**

HUD staff participate in pertinent committees that include the following: Council of American Building Officials (CABO), International Conference of Building Officials (ICBO), Building Officials and Code Administrators (BOCA), Southern Building Code Congress International (SBCCI), ASTM, National Conference of States on Building Codes and Standards (NCSBCS), ACI, American Lumber Standards Committee (ALSC), ANSI, ASHRAE, U.S./Japan Panel on Wind and Seismic Effects, National Academy of Sciences, and National Institute of Building Sciences (NIBS).

#### **Standardization Activities**

The Manufactured Housing and Construction Standards Division writes, updates, revises, and clarifies construction and design standards for HUD-associated residential construction. This activity grew out of the National Housing Act of 1934 and Sec. 7(d) Department of Housing and Urban Development Act, 42 U.S.C. 3535(d), Title VI, Housing and Community Development Act of 1974. The Code of Federal Regulations reference is Title 24 Housing and Urban Development.

The Minimum Property Requirements as originally established in 1935 were intended to provide the minimum essentials for a property to be considered economically sound security for Federal Housing Administration (FHA) mortgage insurance purposes. They establish and



describe those characteristics of a property which will produce continuing utility, livability, durability, marketability, economy of maintenance, safety and healthy environment.

In 1940, the FHA issued the Minimum Requirements for Rental Housing covering multifamily units, while Property Standards and Minimum Construction Requirements for Dwellings applicable to single family dwellings were published in 1942. These were reissued after World War II under the title: Minimum Property Requirements for Properties of Three or More Living Units, and Minimum Property Requirements for Properties of One or Two Living Units. Another reissue took place in 1958 for the One and Two Living Units MPS and in 1963 for the Multifamily Housing MPS. Since then, these standards have been revised numerous times to stay current with evolving technology.

In 1974 the National Mobile Home Construction and Safety Standards Act was enacted by Congress to reduce the number of personal injuries and deaths and the amount of insurance costs and property damage resulting from mobile home accidents and to improve the quality and durability of mobile homes. All mobile manufactured housing built since June 15, 1976 must be in compliance with the requirements of this Act. The standards cover all equipment and installations in the design, construction, fire safety, plumbing, heating, ventilating, and electrical systems of manufactured homes which are designed to be used as dwelling units.

**Availability**

Minimum Property Standards are available through HUD field offices. The Manufactured Housing Standards are available from HUD, Manufactured Housing and Construction Standards Division at HUD Headquarters.

**Keywords**

manufactured homes; (mobile homes); certification; residential; mortgage insurance; building; sanitation; safety; standards; construction;

**INTERDEPARTMENTAL SCREW THREAD COMMITTEE (Defunct)**

Replaced by

DEFENSE INDUSTRIAL SUPPLY CENTER  
ATTN: DISC-ECF  
700 Robbins Avenue  
Philadelphia, Pennsylvania 19111  
(215) 697-2735

The Defense Industrial Supply Center (DISC) replaced the Interdepartmental Screw Thread Committee (ISTC) as

preparing activity for the screw thread standards for federal services in 1976. Following this transfer, the National Institute of Standards and Technology (NIST) Handbook H28, which consisted of 3 volumes of screw thread standards, was converted to a basic cover document, FED-STD-H28, and individually issued sections FED-STD-H28/1, FED-STD-H28/2, ..., FED-STD-H28/22. Each section is coordinated with military activities, federal agencies, and industry associations prior to approval by the General Services Administration.

DISC works closely with the American National Standards Institute (ANSI) Accredited Committee B1 of the American Society of Mechanical Engineers (ASME) which produces the inch and metric screw thread standards for general use by industry. ANSI/ASME B1 and other industry standards are incorporated into equivalent sections of FED-STD-H28 rather than duplicating industry standards as had been the practice in the old Handbook H28.

**Keywords**

fasteners; metric; manufacturing;

**DEPARTMENT OF THE INTERIOR**

**MINERALS MANAGEMENT SERVICE**

Offshore Rules and Operations Division, Branch of  
Rules, Orders, and Standards, Room 3313A  
381 Elden Street  
Mail Stop 646  
Herndon, Virginia 22070  
(703) 787-1609

**Authority**

The Outer Continental Shelf Lands Act, 43 U.S.C. 1331 et seq., provides for the jurisdiction of the United States over the submerged lands of the Outer Continental Shelf (OCS), authorizes the Secretary of the Interior to lease such lands for the development and production of oil and gas, provides for the establishment and enforcement of safety regulations for oil and gas operations, and provides for environmental studies directed towards minimizing the impact of such operations.

**Implementation**

Approximately 200 mandatory requirements are codified as regulations in 30 CFR, Parts 250, 251, 252, 256, 280, 281, and 282. These regulations are for OCS minerals operations, geological and geophysical explorations, an information program, and for the management of pipeline rights-of-way. The regulations are supplemented by OCS Orders for each of the four OCS Regions.

<b>Application</b>	Inspectors visit offshore operators on the OCS to see that safety requirements are followed. Minerals Management Service (MMS) personnel review required reports from lessees to ensure that drilling and production personnel are properly trained, prepared to implement safety contingencies, and that all produced oil gas is properly measured and royalties paid.
<b>Adoption of Non-Government Standards</b>	The MMS currently incorporates by reference 65 non-government standards. The majority of these standards were developed by the American Petroleum Institute and the American Society for Testing and Materials.
<b>Committee Activity</b>	The MMS participates in pertinent committees of the American Society of Mechanical Engineers, American Petroleum Institute, American Welding Society, American Society of Civil Engineers, American Concrete Institute, American Society for Quality Control, and the American Bureau of Shipping.
<b>Standardization Activities</b>	The MMS participates in the preparation of the full range of engineering material and operational standards concerning offshore drilling and production of minerals. These standards are used internationally.
<b>Availability</b>	MMS Regulations and OCS Orders are sold by Government Printing Office and MMS.
<b>Keywords</b>	offshore minerals exploration; continental shelf; offshore platforms; energy; safety;

## DEPARTMENT OF THE INTERIOR

### U.S. GEOLOGICAL SURVEY

Information Systems Division  
12201 Sunrise Valley Drive, 7A210  
Reston, Virginia 22092  
(703) 648-7108

<b>Authority</b>	43 U.S.C. 31, March 3, 1879 (USGS Organic Act), establishes the Geological Survey basic mission.
<b>Implementation</b>	A Memorandum of Understanding with the National Institute of Standards and Technology (NIST) dated February 1980 gives the U.S. Geological Survey (USGS) key agency responsibility for federal digital data standards in the earth sciences (geology, hydrology, cartography, geography).
<b>Application</b>	The USGS Data Standards Committee decides on applicable standards and their priority and establishes work



groups to draft such standards, has them reviewed, and forwards them to NIST as proposed Federal Information Processing Standards (FIPS).

**Adoption of  
Nongovernment  
Standards**

The USGS works with various professional organizations in the development of pertinent standards and uses them as much as possible. The organizations include: the American Public Health Association, American Water Works Association; Water Pollution Control Federation; American Association of Petroleum Geologists; American Society for Testing and Materials; Association of Official Analytical Chemists; Instrument Society of America; International Organization for Standardization; International Electrotechnical Commission; American Commission on Stratigraphic Nomenclature.

**Committee  
Activity**

The USGS participates in pertinent committees of ANSI, ISO, and the U.S. Geographic Names Committee.

**Standardization  
Activities**

A long-term program has been established to develop pertinent standards for data elements and their representation (name, definition, units of measure, digital coding methodology) in the earth sciences. After acceptance by the USGS and Department of the Interior, each standard is published as a USGS circular and sent to NIST as a proposed FIPS. Certain standards proposed as a FIPS are also introduced into the ANSI process as proposed national standards. The USGS recommends that established standards be used in all new and developing systems. All existing data systems should be modified in accordance with the standards at such time that future redesign or modification to the systems take place. To date, two standards have been accepted at USGS and proposed as FIPS: Codes for the Identification of Hydrologic Units in the United States and the Caribbean Outlying Areas, Geological Survey Circular 878-A, and Specifications for Representation of Geographic Point Locations for Information Interchange, Geological Survey Circular 878-B.

**Availability**

USGS Public Affairs Office; the USGS Branch of Distribution, 604 South Pickett Street, Alexandria, Virginia 22304; the USGS Data Administrator.

**Keywords**

earth sciences; geology; hydrology; cartography; topography; geography; data processing;

DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

National Mapping Division  
Office of Technical Management, Room 2B214  
12201 Sunrise Valley Drive  
Reston, Virginia 22092  
(703) 648-4566

<b>Authority</b>	(1) 43 U.S.C. 31, March 3, 1879 (USGS Organic Act) and  (2) Memorandum of Understanding, signed February 1980 by the National Institute of Standards and Technology (NIST) and U.S. Geological Survey (USGS), assign to the USGS the leadership in developing and maintaining earth-science data element and representation standards for use in the federal establishment. The National Mapping Division (NMD) develops and maintains digital cartographic data standards.
<b>Implementation</b>	Digital cartographic data standards are promulgated by issuance of Technical Instructions when approved for use within the USGS, and by publication as a Federal Information Processing Standard (FIPS) by NIST when approved for use throughout the federal establishment.
<b>Application</b>	Use is mandatory (within the USGS or the federal establishment, depending upon level of approval) for all new and developing systems that utilize data elements and representations described by the standard. All existing data systems will be modified in accordance with the standards when redesign and modifications to the system take place.
<b>Committee Activity</b>	The NMD participates in the Federal Interagency Coordinating Committee on Digital Cartography (FICCDC) Standards Working Group which is charged with coordinating and promoting activities for exchanging digital spatial data among federal agencies.
<b>Standardization Activities</b>	<p>The USGS has taken the leadership role in the development of the Spatial Data Transfer Standard (SDTS) that will be submitted to NIST for adoption as a FIPS. The SDTS has been produced to meet the need for easy transfer of spatial data from one spatial data handling system to another. It is being promoted throughout the federal community by FICCDC, and once approved as a FIPS, will be used by the federal government to distribute spatial data.</p> <p>In addition to supporting the development of data exchange standards, the NMD has assembled and published Technical Instructions, including product standards and</p>



data users guides that have been developed to govern the collection, archiving, and distribution of USGS digital cartographic data.

**Availability**

USGS Technical Instructions are available from the Earth Science Information Center, U.S. Geological Survey, 12201 Sunrise Valley Drive, Reston, Virginia 22092.

**Keywords**

cartography; geography; digital spatial data; spatial data transfer standard; data processing;

**DEPARTMENT OF THE INTERIOR**

**U.S. GEOLOGICAL SURVEY**

Water Resources Division  
12201 Sunrise Valley Drive  
Reston, Virginia 22092  
(703) 648-5215

**Authority**

43 U.S.C. 31, March 3, 1879 (USGS Organic Act)

**Implementation**

U.S. Geological Survey (USGS) guideline documents for the collection and analysis of surface-water, ground-water, and water quality data include:

USGS Bulletin 17B, Guidelines for Determining Flood Flow Frequency; USGS Water Supply Paper No. 2175, Measurement and Computation of Streamflow: Volume 1. Measurement of Stages and Discharge; USGS Circular 878-A, Codes for the Identification of Hydrologic Units in the United States and the Caribbean Outlying Areas; USGS Techniques of Water-resources Investigation; and National Handbook of Recommended Methods for Water-Data Acquisition.

**Application**

Standards are voluntarily adopted by the Water Resources Division (WRD). All WRD offices and laboratories are reviewed on a scheduled basis and all quality assurance programs must reference the standards.

**Adoption of  
Nongovernment  
Standards**

Numerous nongovernment standards have been adopted by WRD. There is strong support for the development and use of consensus standards related to water resources data collection and analysis as developed by the International Organization for Standardization (ISO), the American Society for Testing and Materials (ASTM), and other groups.

**Committee  
Activity**

WRD participates in pertinent committees of the following: Interagency Advisory Committee on Water



Data, Coordinating Committees of U.S. Geological Survey (USGS) with each of the following federal agencies: National Oceanic and Atmospheric Administration; Bureau of Land Management; and Environmental Protection Agency; and committees for the American Water Resources Association, National Water Well Association, American Society of Civil Engineers, American Public Health Association, ASTM, ISO, and the World Meteorological Organization (WMO).

**Standardization  
Activities**

The USGS, as part of its implementation of OMB Circular A-67, has designated the Office of Water Data Coordination (OWDC) within WRD to identify methods used to acquire water data and to recommend methods for use by federal agencies. The OWDC accomplishes this with the advice and guidance of the IACWD. As of 1989, the IACWD, through OWDC, has published 10 chapters of the National Handbook of Recommended Methods for Water-Data Acquisition. The chapters include recommended methods on: 1. Surface Water, 2. Groundwater, 3. Sediment, 4. Biological and Microbiological Quality of Water, 5. Chemical and Physical Quality of Water, 6. Soil Water, 7. Drainage-Basin Characteristics, 8. Evaporation and Transpiration, 9. Snow and Ice, 10. Hydrometeorological Observations. Subcommittees of the IACWD periodically review and update the chapters.

WRD is cooperating with EPA, the Navy, and ASTM to accelerate the development of consensus standards for ground-water data collection, reporting, and analysis. WRD also develops standards, methods, and guidelines in the field of hydrology where no standards exist, to assure the reproducibility of analytical results and to give quality assurance to the programs and studies within WRD. WRD participates in the U.S. Geological Survey's interagency Data Standards Committee that identifies standards used within the agency.

**Availability**

Government Printing Office, and USGS Public Inquiries Offices.

**Keywords**

hydrology; surface water; ground water; water quality; data processing; public health;

**DEPARTMENT OF JUSTICE**

**NATIONAL INSTITUTE OF JUSTICE**

Technology Assessment Program

see **DEPARTMENT OF COMMERCE**

**NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY**  
National Engineering Laboratory  
Law Enforcement Standards Laboratory

DEPARTMENT OF LABOR

MINE SAFETY AND HEALTH ADMINISTRATION

Office of Standards, Regulations and Variances  
4015 Wilson Boulevard, Room 627, BT #3  
Arlington, Virginia 22203  
(703) 235-1910

<b>Authority</b>	30 U.S.C. 811, November 9, 1977, The Mine Safety and Health Act of 1977, to provide for the health and safety of workers in the mining industry.
<b>Implementation</b>	Several hundred safety and health regulations are codified in 30 CFR, Chapter I. These requirements include specifications for obtaining approval of certain equipment used in mines, required work practices, and maximum exposure levels to hazardous substances.
<b>Application</b>	Federal inspectors visit mine sites to see that the health and safety standards are followed, and the standards are also applied through voluntary compliance. The standards also establish procedures and requirements for application within the Mine Safety and Health Administration (MSHA). MSHA also tests for approval and certification of certain products for use in potentially explosive underground mine atmospheres.
<b>Adoption of Nongovernment Standards</b>	Whenever practicable MSHA adopts nongovernment standards. The majority of these standards have been developed by the American Conference of Governmental Industrial Hygienists (ACGIH), the American National Standards Institute (ANSI), the American Society of Mechanical Engineers (ASME), the National Fire Protection Association (NFPA), and the Society of Automotive Engineers (SAE).
<b>Qualification, Certification, Calibration</b>	Manufacturers of certain equipment for use in underground mines with potentially explosive or atmospheres must submit their equipment to MSHA for approval and certification.
<b>Committee Activity</b>	MSHA has technical experts who participate on committees of the following: American National Standards Institute; American Conference of Governmental Industrial Hygienists; Institute of Electrical and Electronics Engineers; and National Fire Protection Association.
<b>Standardization Activities</b>	MSHA's standards are directed at improving the occupational safety and health of workers in the mining industry. These standards concern safe work practices, maximum exposure levels to hazardous standard or



potentially harmful conditions, and performance criteria for the design of certain types of mining equipment. In 1983, MSHA's standards affected the working conditions of over 370,000 miners.

**Availability**

Sold by Government Printing Office and through a loose-leaf service offered by the Bureau of National Affairs, the Mine Safety and Health Reporter. Copies of specific standards may also be obtained directly from MSHA.

**Keywords**

coal mining; metal and nonmetal mining; underground mines; surface mines; equipment approval for gassy mines; energy; industrial equipment; health care; safety; testing;

**DEPARTMENT OF LABOR**

**OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION**

Directorate of Safety Standards Programs  
200 Constitution Avenue, NW, Room N3605  
Washington, DC 20210  
(202) 523-8061

**Authority**

Occupational Safety and Health Act of 1970, PL 91-596

**Implementation**

29 CFR Part 1910 -- Occupational Safety & Health Standards for General Industry; 29 CFR Part 1915 -- Occupational Safety & Health Standards for Shipyard Employments;  
29 CFR Part 1917-1918 -- Occupational Safety & Health Standards for Marine Terminals; Longshoring;  
29 CFR Part 1926 -- Construction Safety & Health Standards;  
29 CFR Part 1928 -- Occupational Safety & Health Standards for Agricultural Employments.

**Application**

Inspection of the workplace

**Adoption of  
Nongovernment  
Standards**

American National Standards Institute (ANSI)  
National Fire Protection Association (NFPA)

**Qualification,  
Certification,  
or Calibration**

Throughout the OSHA standards, there are requirements for certain equipment to be listed, labelled, or approved by nationally recognized testing laboratories.

**Committee  
Activity**

National Advisory Committee on Occupational Safety and Health  
Standards Advisory Committee on Construction Safety and Health  
American National Standards Institute



National Fire Protection Association  
American Society for Testing and Materials  
International Labor Organization

**Standardization  
Activities**

The Occupational Safety and Health Administration (OSHA) develops and enforces occupational safety and health standards to provide protection to the nation's workers on their job. The standards are directed at the various hazards in which workers may be exposed. The purpose of the act is "to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources." OSHA adopted its initial standards on May 29, 1971 and they consisted of national consensus standards and the federal standards that were already in effect under other Department of Labor administered laws.

OSHA develops and promulgates occupational safety and health standards and issues regulations necessary for assuring compliance with its standards and regulations. The Directorates of Safety Standards Programs and Health Standards Programs have the main responsibility in carrying out these functions. When either of the Directorates determines a need, on the basis of information submitted by interested parties, scientific data from the field, or experience gained under other health and safety laws, the appropriate Directorate will develop new standards, revoke or modify existing standards using one of two procedures available. All regular proposals to promulgate, modify, or revoke an Occupational Safety and Health standard using the 6(b) procedure must be published in accordance with Administration Procedures Act (APA) requirements in the Federal Register to afford interested parties an opportunity to comment before the standard becomes effective or is revoked. A temporary emergency standards procedure (6(c) procedure) may be used to promulgate standards where the APA procedures are waived. Such a temporary emergency standard must be replaced by a 6(b) standard within 6 months.

In developing new standards or modifying standards, the Directorates of Safety or Health Standards determine whether there is a need for the establishment of a standards advisory committee to assist them in the standards-setting function. Once it is determined there is a need for a committee, one is appointed which consists of 5 to 15 members and is composed of representatives of management, labor, state and federal governments and the public. Advisory committee meetings are opened to the public and a transcript is made available for public review.

OSHA standards are contained in Title 29 of the Code of Federal Regulations: (1) General Industry, Part 1910, (2) Maritime, Parts 1915, 1917, and 1918, (3) Construction, Part 1926, and (4) Agriculture, Part 1928.

**Availability** Publications Office, OSHA, and Government Printing Office

**Keywords** safety; health; environment; electrical equipment; manufacturing; construction; shipyards; agriculture; machinery; business; emergency response;

## LIBRARY OF CONGRESS

### COLLECTIONS SERVICES

101 Independence Ave., SE,  
Room 642, Madison Bldg.  
Washington, DC 20540  
(202) 707-5325

**Authority** Collection Services (by authority of the Library of Congress Regulation) has as its mission to develop qualitatively the Library's universal collections, which document the history and further the creativity of the American people, and which record and contribute to the advancement of civilizations and knowledge throughout the world; to acquire, organize, provide access to, maintain, secure, and preserve these collections. In achieving this mission, Collections Services takes part in the development and implementation of standards governing its technical services activities.

**Implementation** Collections Services voluntarily follows OMB Circular A-119 which specifies the use of voluntary standards developed outside the government and participation in the development of voluntary standards as required for office missions.

**Adoption of Non-Government Standards** The Library of Congress has adopted and applied the following guidelines and publications:

Dewey Decimal Classification: The Library of Congress Decimal Classification Division and Forest Press have agreed to develop and apply the Dewey Decimal Classification at the Library of Congress. The Dewey Decimal Classification schedule is applied on over 100,000 catalog records per year at the Library of Congress. Sixty thousand sets of the unabridged classification have been sold over the life of the edition (currently the 20th, 1989). Librarians choose



to use Library of Congress catalog records or apply the schedule themselves (primarily in public and school libraries).

**Anglo-American Cataloging Rules:** The standard for descriptive cataloging is developed by the international committee representing national libraries (including the Library of Congress) and the national library associations of Australia, Britain, Canada, and the United States

**Library of Congress Rule Interpretations:** The second editions (1989) provides an accumulation of all currently valid Library of Congress rule interpretations issued since the Anglo-American Cataloging Rules was published in 1978.

**International Standard Bibliographic Description:** The standard for the part of descriptive cataloging called bibliographic description is developed by the International Federation of Library Associations and Institutions (IFLA), of which the Library of Congress is a member. It includes a variety of standard numbers, such as International Standard Book Number (ISBN), International Standard Serial Number (ISSN), etc.

**Paris Principles:** The quasi-standard for that part of descriptive cataloging called access points, it is a set of guidelines adopted by the International Conference on Cataloging Principles held in Paris in 1961.

**Library of Congress Subject Headings:** The twelfth edition (1989) and monthly updates are developed by the Subject Cataloging Division in Collections Services. It includes over 175,000 authorized subject headings and subdivisions which are accepted as a library standard of "keywords."

**Subject Cataloging Manual: Subject Headings:** The third edition (1988) provides guidelines for cataloging as practiced by the Subject Cataloging Division of the Library of Congress and explains the rationale for assigning subject headings to specific works.

**Subject Cataloging Manual: Shelflisting:** Published in 1987, the manual functions as a practical source for shelflisters and catalogers who wish to create call numbers in the spirit of Library of Congress policy and practice. It also describes the procedures to follow when assigning Cutters.



Library of Congress classification schedules: The 45 separate schedules and updates give an authorized classification scheme for the arrangement of library materials by field of study. The Library of Congress system is used primarily by all university libraries, by some college and junior college libraries, and by some public libraries.

Library of Congress Filing Rules: The rules were developed by the Library of Congress to arrange bibliographic records (or catalog cards) in a basic alphabetical arrangement incorporating logic for application in computer files.

Standards developed by American National Standards Committees Z39, Libraries, Information Science, and Publishing, and X3, Information Processing.

Standards developed by International Organization for Standardization (ISO), Technical Committee (TC) 46, Documentation, and TC 97, Computer Information Processing.

The Library of Congress together with the American Library Association develops romanization systems for the major non-Roman alphabet languages. The tables have become the de facto standard of the North American library community.

MARC Formats: The Library of Congress is instrumental in the development of MARC (machine-readable cataloging) formats, which have been adopted as national and international standards. The MARC formats incorporate standards, such as cataloging rules and principles. The formats also include de facto standards for content designators.

Computer Protocols: Assist in establishing library and information community usage profiles.

#### Committee Activity

Collections Services participates in the committees or organizations responsible for the guidelines and publications listed above including:

- (1) Subject Analysis Committee, Resources and Technical Services Division (RTSD), American Library Association (ALA)
- (2) Committee on Cataloging: Description and Access, RTSD, ALA
- (3) Forest Press Committee
- (4) Decimal Classification Editorial Policy Committee

- (5) Joint Steering Committee for Revision of Anglo-American Cataloging Rules
- (6) NISO, X3, ISO/TC 46, and various related committees and councils
- (7) National Institute of Standards and Technology
- (8) International Serials Data System (ISDS), including its Governing Board and Directors
- (9) Serials Industry Systems Advisory Committee (SISAC)
- (10) Book Industry Systems Advisory Committee (BISAC)
- (11) Machine-Readable Form of Bibliographic Information Committee (MARBI)
- (12) International Federation of Library Associations and Institutions (IFLA)
- (13) Linked System Project (LSP) Committees

#### Standardization Activities

#### The Library of Congress:

- has principal responsibility for the development of standards for the interchange of bibliographic records (including the format of the data in those records, coded data such as language and country codes, character sets, and works with others on communication protocols);
- acts as the maintenance agency in the United States for the International Standard Serial Number standard and cooperates with the maintenance agency in the United States in the use of accurate International Standard Book Numbers;
- acts as maintenance agency for information retrieval protocol;
- is active in developing standards for data in bibliographic records, such as holding statements for serial publications;
- formulates official Library of Congress interpretations of cataloging rules; and
- distributes products of standardized cataloging and bibliographic activities in these formats:
  - a) catalog cards
  - b) MARC tapes

and bibliographic activities in these formats:

- a) catalog cards
- b) MARC tapes
- c) book catalogs, such as the
  - National Union Catalog
  - Music, Books on Music, Sound Recordings
- d) computer output microfiche catalogs, etc.
- e) CD-ROM products

**Availability**

Many of the publications listed above are available from the Library of Congress' Cataloging Distribution Service.

Manual on the Use of the Dewey Decimal Classification: Edition 20 and related publications are sold by Forest Press, 85 Watervliet Avenue, Albany, NY  
The Anglo-American Cataloging Rules, 2nd edition are sold by the American Library Association.

Other standards are available from IFLA, ISO, NISO, etc.

**Keywords**

Dewey Decimal Classification; library classification; classification; libraries; cataloging; subject headings; thesaurus; language codes; Anglo-American Cataloging Rules; bibliographic control; MARC tapes; catalog cards; bibliographic data formats; ISSN; communication protocols; character sets; information processing;

**LIBRARY OF CONGRESS**

**INFORMATION TECHNOLOGY SERVICES**

10 First Street, SE  
Washington, DC 20540  
(202) 707-5114

**Implementation**

The Library of Congress (LC) pilot program began service operations in 1984, involving all forms of optical disks. A task was established to track the emerging standards in this area, document and identify those areas in which the lack of standards presents problems in information interchange on optical disk, and share findings with other research libraries and related institutions with which the Library would be likely to engage in such information interchange. The library has been represented on the ANSI-accredited standards committee X3B11 on Optical Digital Data Disks since its formation in April 1984 and has participated in international standards developments on the ISO SC 23 committee



Availability	An aperiodic series of reports are planned as well as publication of findings in the open literature.
Keywords	optical disk; videodisc; digital storage; magneto-optical disks; information processing; optics;
<u>LIBRARY OF CONGRESS</u>	
<u>NATIONAL LIBRARY SERVICE FOR THE BLIND AND PHYSICALLY HANDICAPPED</u>	
1291 Taylor Street, NW Washington, DC 20542 (202) 707-5100	
Implementation	<p>(1) Published the guidance document, Published Approved Recommendations on Working Out National Standards of Library Service for the Blind, August 1983. This was compiled and adopted by the Standards Development Committee, Section of Libraries for the Blind, Int'l. Federation of Library Associations.</p> <p>(2) Published the guidance document Standards of Service for the Library of Congress Network of Libraries for the Blind and Physically Handicapped, revised 1984. This was developed and adopted by the Association of Specialized and Cooperative Library Agencies, the American Library Association.</p>
Application	The recommendations on Working Out National Standards are used by member countries in developing library service to the blind and in promoting international standards of service. The Standards of Service are used in evaluating the quality of library service provided by each library in a cooperating network either through self-evaluation or on-site inspections by representatives of the Library of Congress (LC), National Library Service for the Blind and Physically Handicapped (NLSBPH).
Committee Activity	American Library Association, Committee on Standards.
Standardization Activities	Reviews and approves proposed and existing standards for continued relevance to the state of library development and service for the blind and physically handicapped.
Availability	(1) On request from Executive Secretariat, Office of the Director, National Library Service for the

Blind and Physically Handicapped, at the address above.

(2) Sold by the American Library Association, 50 E. Huron Street, Chicago, Illinois 60611.

**Keywords**

library service; library networks; blindness; physical handicaps; social welfare;

**LIBRARY OF CONGRESS**

**PHOTODUPLICATION SERVICES**

Washington, DC 20540  
(202) 707-5650

**Application**

Photographic standards are specified in various conversion programs for preservation. Bibliographic standards are followed in appropriate divisions to promote more efficient transmission of information. Standards work for permanence of paper for printed library materials is a part of the Library's National Preservation Program.

**Adoption of  
Nongovernment  
Standards**

All new and revised ANSI PH1-5 standards (and those succeeded by IT9) are required for all preservation and conservation work involving photography. ANSI/AIIM standards are used for microphotography. ANSI/NISO standards are adopted for bibliographic and information-related work.

**Committee  
Activity**

Various staff members serve on American National Standards (ANSI) committees and subcommittees, especially those dealing with photographic materials in PH1, PH4, and PH5 (some PH1 standards now are designated as IT9), as well as the Association for Information and Image Management (AIIM) which deals with microphotography and micrographics. In addition, staff members have participated in Z30 and Z39 standards activities, which involves, respectively, library work and publishing practice, and bibliographic description of microforms, serials, and technical reports, plus paper for printed library materials.

**Standardization  
Activities**

As members of the committees listed above, staff members view and vote on the adoption of standards in those areas. Because no standards existed for micrographic reproduction when the Library of Congress had need of such standards, four specifications were developed for the microfilming of newspapers, books and pamphlets, library catalog cards, and manuscripts. The newspaper specification has since become ANSI/AIIM MS111-1987, Recommended Practice for Microfilming

Printed Newspapers on 35mm Roll Microfilm.

**Availability**

All Library of Congress microphotographic specifications have been reprinted and are available from the Association for Information and Image Management, 1100 Wayne Avenue, Silver Spring, MD 20910.

**Keywords**

reprographics; document reproduction; micrographics; preservation microfilming; photography; information processing;

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

**OCCUPATIONAL HEALTH OFFICE**

Mail Code NHG  
600 Independence Avenue, SW  
Washington, DC 20546  
(202) 755-1275

**Authority**

- (1) Occupational Safety and Health Act of 1970 (29 U.S.C. 668).
- (2) Executive Order 12196, Occupational Safety and Health Programs for Federal Employees (10/1/80).
- (3) Department of Labor Regulations on Federal Employee Occupational Safety and Health Programs (29 CFR, Part 1960).
- (4) Occupational Safety and Health Standards and Provisions (20 CFR, Part 1910).
- (5) Office of Management and Budget Circular A-72.
- (6) Nuclear Regulatory Commission (10 CFR, Chapter 1).
- (7) Atomic Energy Act of 1954 (42 U.S.C. 2011).

**Implementation**

Alternative standards are promulgated under the Code of Federal Regulations, Title 20, Chapter XVII, Part 1960, Subpart C, Section 17 (29 CFR 1960.17). Supplementary standards can be adopted under 29 CFR 1960.18.

**Application**

Health standards are employed in the recognition, evaluation, and control of workplace hazards by industrial hygienists and physicians at each National Aeronautics and Space Administration (NASA) Center.

**Adoption of  
Nongovernment  
Standards**

The threshold limit values published by the American Conference of Governmental Industrial Hygienists have been adopted by NASA for evaluating exposures to chemical substances and physical agents.



<b>Standardization Activities</b>	The NASA Headquarters Occupational Health Office is active in the preparation of policies, program elements, procedures, guidelines, and health protection standards. Documents cover occupational medicine, industrial hygiene, and environmental health activities. These documents are utilized at each of the 14 NASA facilities nationwide.
<b>Availability</b>	NASA Headquarters Occupational Health Office. Other NASA documents on medical and workplace surveillance are available through National Technical Information Service.
<b>Keywords</b>	occupational medicine; environment; industrial hygiene; health care;

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

**SAFETY, RELIABILITY, MAINTAINABILITY  
AND QUALITY ASSURANCE DIVISION**

Room B336, FB 10  
Washington, DC 20546  
(202) 453-2633

<b>Authority</b>	Title 10, U.S.C. Chapter 145 and Department of Defense Directive 4120.3
<b>Implementation</b>	<ul style="list-style-type: none"> <li>(1) Memorandum of Understanding Between the Department of Defense (DoD) and the National Aeronautics and Space Administration (NASA) Concerning NASA's Participation in the Defense Standardization Program.</li> <li>(2) NASA Management Instruction NPD 5320.5, Basic Policy for Electronic Parts.</li> <li>(3) NASA Handbook NHB 5300.4(1A), Reliability Program Provisions for Aeronautical and Space Contractors.</li> <li>(4) NASA Handbook NHB 5100.2, NASA Procurement Regulations.</li> </ul>
<b>Application</b>	Implementation of NASA standards, instructions and handbook is through purchase orders, product qualifications, and manufacturing line certification.
<b>Adoption of Nongovernment Standards</b>	ASTM test methods are used in MIL-STD-977 as alternates to military standard test methods and procedures for certification of microcircuit production lines.

<b>Qualification, Certification, or Calibration</b>	Qualification and certification to various military specifications is accomplished jointly with Defense Electronic Supply Center under the DoD Defense Standardization Program.
<b>Committee Activity</b>	Observer to the Department of Defense advisory group on Qualified Products Lists Policy and Procedures. Custodian/Preparing Activity to various military specifications and standards in the Federal Supply Class 59 (Electrical).
<b>Standardization Activities</b>	Established a NASA Standard Parts Program (NSPP) in 1974. The program is administered by the Office of the Chief Engineer at NASA Headquarters and operated by the Marshall Space Flight Center. Standardization concentrates on extended reliability electronic parts with MIL-STD-975, NASA Standard Parts List (NSPL), as the baseline document. The Program uses the DoD specification and standards system but makes in depth analyses of part before approving for the NSPL. It has worked closely with the Air Force to develop a quality level of parts for use in critical space applications that is designated class "JAN S."
<b>Availability</b>	NASA handbooks are available from Government Printing Office. NASA prepared military specifications and standards are available from Naval Publications and Forms Center.
<b>Keywords</b>	aerospace; high reliability; parts control; electronic parts;

#### **NATIONAL ARCHIVES AND RECORDS ADMINISTRATION**

	Archival Research and Evaluation Staff 8th and Pennsylvania Avenue, NW, Room 14N Washington, DC 20408 (202) 501-5540
<b>Authority</b>	44 U.S.C. 2101 et seq., April 1, 1985, the Archivist of the United States shall provide for the preservation of federal records of continuing value. As provided in 44 U.S.C. chapters 29 and 33, the Archivist of the United States is authorized to establish standards for the production and reproduction of records by federal agencies.
<b>Implementation</b>	Standards for micrographics are codified as regulations in 36 CFR, Part 1230.
<b>Application</b>	National Archives and Records Administration (NARA) requires agencies to produce and maintain microfilm of permanent records according to production and

maintenance standards.

**Adoption of  
Nongovernment  
Standards**

NARA has adopted ANSI standards for photographic materials as the basis of regulations.

**Qualification,  
Certification,  
or Calibration**

Agencies are to certify that the permanent record film they produce meets ANSI standards.

**Committee  
Activity**

NARA participates in pertinent committees of the following: Accredited Standards Committees PH1 (Photographic Films, Plates, and Papers) and PH4 (Photographic Processing Procedures), and Library, Documentation, and Related Publishing Practices (Z39).

**Standardization  
Activities**

NARA is active in the preparation of standards concerned with the manufacturing, processing, and storing of materials used to maintain permanently valuable information of the federal government. This includes paper, film, optical disk, and magnetic tape. NARA observes, analyzes, and may recommend or require data exchange standards for the transfer and storage of permanent federal records in electronic form. Standards and specifications of national standardizing groups are utilized to the maximum extent. Where they are not adequate, NARA prepares regulations for federal agencies.

**Availability**

Federal Register

**Keywords**

permanent records; preservation; film; paper; magnetic tape; archives; data; data exchange standards; Information Resources Management Standards; photography; optical disk;

**NUCLEAR REGULATORY COMMISSION**

**NUCLEAR REGULATORY RESEARCH**

Room 154, NLBS  
Washington DC 20555  
(301) 492-3700

**Adoption of  
Nongovernment  
Standards**

Many Nuclear Regulatory Commission (NRC) guides refer to or endorse national standards that are developed by recognized national organizations, i.e., ANSI, ASTM, ASME, often with NRC participation. NRC makes use of a national standard in the regulatory process only after an independent review by the NRC staff and after public comment on NRC's planned use of the standard has been reviewed.



**Committee  
Activity**

NRC participates on more than 300 interagency, nongovernmental, and international standards committees. The NRC staff is active in national standards programs, particularly with respect to setting priorities. NRC participation derives from a need for national standards to define acceptable ways of implementing the NRC's basic safety regulations. Approximately 200 NRC staff members serve on working groups organized by technical and professional societies.

**Standardization  
Activities**

NRC standards are primarily of two types -- Regulations and Regulatory Guides.

Regulations set forth requirements that must be met by NRC licensees in Title 10, Chapter I, of the Code of Federal Regulations. When NRC proposes new or amended regulations, they are normally published in the Federal Register to allow interested person time for comment before they are adopted. This is required by the Administrative Procedure Act. Following the public comment period, the regulations are revised, as appropriate, to reflect the comments received. Once adopted by the NRC, they are published in the Federal Register in final form, with the date they became effective. After that publication, rules are codified and included annually in the Code of Federal Regulations.

Regulatory Guides are issued to describe and make available to the public such information as methods acceptable to the NRC staff for implementing specific parts of the Commission's regulations, techniques used by the staff in evaluating specific problems or postulated accidents, and data needed by the staff in its review of applications for permits and licenses. Regulatory Guides are not substitutes for regulations, and compliance with them is not required.

The guides are issued in the following ten broad divisions: Power Reactors, Research and Test Reactors, Fuels and Materials Facilities, Environmental and Siting, Materials and Plant Protection, Products, Transportation, Occupational Health, Antitrust and Financial Review, and General. NRC issues the guides for public comment in draft form before an official staff position has been established. Regulatory guides may also be withdrawn when changes make them obsolete.

**Keywords**

energy; nuclear; reactors; environment; radiation; safety;

DEPARTMENT OF STATE

U.S. NATIONAL COMMITTEE FOR THE INTERNATIONAL TELEGRAPH  
AND TELEPHONE CONSULTATIVE (CCITT)

Bureau of International Communications and Information  
Policy, Telecommunications and Information Standards  
Directorate  
Room 6317 N.S.  
2201 C Street, NW  
Washington, DC 20520  
(202) 647-5220 FAX: (202) 647-7407

**Application**

Voluntary standards (CCITT Recommendations) for telecommunications equipments, networks and services are issued by the International Telecommunications Union, a specialized agency of the United Nations, for use by each nation, according to its needs and laws. The current CCITT Recommendations (standards) are identified as the "Blue Books." There are over 19,000 pages, covering the CCITT Plenary or study period starting in 1989 and running through the next Plenary Assembly presently scheduled for 1992.

**Adoption of  
Nongovernment  
Standards**

Within the United States, the vast majority of telecommunications standards are produced by industry participants and organizations. Typical of these organizations are AT&T, MCI Telecommunications, NYNEX, Bell South, the IEEE, TIA, CBEMA, and ANSI T1 Committee. Twenty-three government agencies participate in these organizations as active players and users.

**Committee  
Activity**

Industry participants with an interest in telecommunications may join the CCITT and/or the U.S. National Committee of the CCITT at their own initiative, under the authority of the Department of State which represents the United States as the telecommunications Administration in the treaty organization - the ITU. They may also petition the FCC for recognition as a Recognized Private Operating Agency and may choose to join the CCITT and/or the U.S. National Committee of the CCITT.

The U.S. National Committee develops technical, operational and accounting contributions from U.S. industry (both government and private sector) for approval and submission to the CCITT as U.S. contributions. The U.S. Delegation to the CCITT is usually chaired by a representative of the Department of State. The chair speaks for the United States at the international sessions and meetings of the CCITT



where the final version of the standards are negotiated.

**Standardization  
Activities**

Telecommunications standards may be initiated by a person or company primarily through one of the U.S. technical committees such as IEEE, ANSI T1, CBEMA, TIS, etc. (many contributions - mostly non-technical - begin their process directly at the U.S. CCITT Study Group level). These contributions are developed to maturity by these bodies, and are submitted for consensus vote in their respective arenas. They are then submitted by a company, committee, or person to the U.S. National Committee for consensus at the U.S. National Committee level. With consensus, the contribution becomes a U.S. source document for the attention of the CCITT. The nations of the CCITT will develop the standard further and finally arrive at consensus at an international meeting. The contribution then becomes a CCITT standard.

**Availability**

The CCITT Standards are sold by the ITU. They are also available for local sale.

**Keywords**

telecommunications; telephone; data communications; Integrated Services Digital Network (ISDN); telematics; ITU;

**DEPARTMENT OF TRANSPORTATION**

**FEDERAL AVIATION ADMINISTRATION**

Program Management Division  
800 Independence Avenue, SW  
Washington, DC 20591  
(202) 267-8315

**Authority**

The Federal Aviation Administration (FAA) was created under Title 6 of the Federal Aviation Act of 1958 to provide for the regulation and promotion of civil aviation in such a manner as to best foster its development and safety, and to provide for the safe and efficient use of the airspace by both civil and military aircraft. The Federal Aviation Regulations are promulgated under Title 14 of the Code of Federal Regulations. The first regulation and civil aviation standards originated with the passage of the Air Commerce Act of 1926.

**Implementation**

FAA standards are either regulatory or non-regulatory in nature. Those in the former category are found in the various numbered parts of the Federal Aviation Regulations (FAR's) and as such are subject to review in accordance with the Administrative Rulemaking



Procedures in which the public participates. Regulatory announcements and Notices of Proposed Rulemaking are published in the Federal Register. The non-regulatory standards generally contained in the FAA Advisory Circulars (AC's) serve principally as the means of providing safety information to the public with respect to aircraft operations or a related aeronautical interest. Non-regulatory circulars also provide the public with guidelines in meeting regulatory requirements.

**Standardization  
Activities**

Regulations and standards are developed and administered by various offices and services within FAA. The Associate Administrator for Aviation Standards is responsible for most of the regulatory material which includes the certification, operations, and maintenance of aircraft, engines, propellers, and aircraft equipment; licensing of airmen and airman aeromedical standards; for aircraft operational procedures, and the certification of schools, repair stations, and parachute lofts; and for airport and air carrier security. The Air Traffic Service is responsible for regulations and standards governing airspace utilization, air traffic control and procedures, and for the establishment and installation of navigational facilities. The Associate Administrator for Airports is responsible for regulations and standards concerning airport certification and airport grants; and the Associate Administrator for Policy and International Aviation for aircraft noise standards.

**Availability**

The Federal Aviation Administration periodically publishes a revised Advisory Circular Checklist (AC00-2) and Status of the Federal Aviation Regulations (AC00-44) which list current AC's and FAR's. These may be obtained free of charge from the address above. Regulations may be purchased from the Government Printing Office.

**Keywords**

aviation; aircraft; engines; air traffic control; airports; noise; environment; transportation; safety;

**DEPARTMENT OF TRANSPORTATION**

**FEDERAL HIGHWAY ADMINISTRATION**

Office of Engineering, Highway Design, HNG-14  
400 7th Street, SW  
Washington, DC 20590  
(202) 366-1327 or (202) 366-4853

<b>Authority</b>	23 U.S.C. 109, 315 and 402; 49 CFR 1.48(b) unless otherwise noted Source 43 FR16832, May 7, 1986 unless otherwise noted.
<b>Implementation</b>	23 CFR Part 625 - Design Standards for Highways
<b>Application</b>	Standards, specifications, policies, guides and references are approved by the Federal Highway Administration for application on federal-aid projects. The regulation (23 CFR 625) does not establish federal standards for work that is not federally funded; however, the safety related criteria of the referenced documents are established as goals for developing state and local Safety Programs Standard 12, 23 CFR, Part 1204.4.
<b>Adoption of Nongovernment Standards</b>	Of the 42 publications and references noted in 23 CFR, Part 625, 29 were developed by American Association of State Highway and Transportation Officials (AASHTO); one by the American Welding Society; and two by the Transportation Research Board and the remaining 10 are Federal Highway Administration publications or references.
<b>Committee Activity</b>	The Federal Highway Administration participates in pertinent committees of the American Association of State Highway and Transportation Officials.
<b>Standardization Activities</b>	<p>The Federal Highway Administration approves the engineering standards and specifications which are used on federal-aid projects. In addition these approved references are cited as goals for developing safety programs for all public highways as required by standard 12, 23 CFR, Part 1204.4. Because of these two well established uses, numerous other state and local highway related organizations employ the referenced documents directly or extract significant portions in the development of their own standards and specifications.</p> <p>The standards and specifications of the American Association of State Highway and Transportation Officials, which is an organization made up of the state highway agencies plus those agencies in Puerto Rico and the District of Columbia and thus is viewed as the national highway organization, are utilized to the maximum extent practicable. Where such standards and specifications do not exist or where they do not adequately provide for the federal interest, the Federal Highway Administration prepares new or supplemental documents to provide for the needs of its federal-aid program.</p>
<b>Availability</b>	Federal Highway Administration



**Keywords** highways; bridges; traffic control; design; materials; construction; transportation;

**DEPARTMENT OF TRANSPORTATION**

**FEDERAL HIGHWAY ADMINISTRATION**

Office of Environmental Policy  
400 7th Street, SW  
Washington, DC 20590  
(202) 366-2045

**Authority** 23 U.S.C 109(i) - The Federal-Aid Highway Act of 1970 requires that noise be considered in the development of new highway projects and that standards for highway noise levels compatible with various land uses be developed and implemented.

**Implementation** The noise standards mandated by 23 U.S.C 109(i) are codified in 23 CFR, Part 772. The standards provide procedures for noise studies and noise abatement measures to help protect the public health and welfare, supply noise abatement criteria, and establish requirements for information to be given to local officials for use in the planning and design of highways approved pursuant to Title 23, United States Code (U.S.C.).

**Application** The standards apply to any proposed federal or federal-aid highway project for the construction of a highway on new location or the physical alteration of an existing highway which significantly changes either the horizontal or vertical alignment or increases the number of through-traffic lanes. They also apply to any proposed federal or federal-aid project for noise abatement on an existing highway.

**Committee Activity** The Federal Highway Administration participates in pertinent committees of the American Association of State Highway and Transportation Officials, Transportation Research Board, and Society of Automotive Engineers.

**Standardization Activities** The Federal Highway Administration (FHWA) is active in the preparation and implementation of highway traffic noise and construction noise standards for the planning, design, and construction of federal-aid funded highways. These highways are constructed by state and local highway agencies.

The FHWA coordinates the preparation of the standards with the Environmental Protection Agency, other federal



agencies, the states, and the public.

The public who lives next to federal-aid funded highways receive the benefit of a substantial reduction in highway traffic noise if the states determine that noise abatement is reasonable and feasible.

FHWA standards have produced over 380 miles of noise barriers to reduce highway traffic noise in residential areas, schools, hospitals, and parks.

**Availability**

Code of Federal Regulations, Title 23, part 772 is available from the Government Printing Office.

**Keywords**

highways; traffic; construction; land use; pollution; environment; noise control; transportation;

**DEPARTMENT OF TRANSPORTATION**

**FEDERAL HIGHWAY ADMINISTRATION**

Office of Highway Operations - HHO-1  
400 7th Street, SW  
Washington, DC 20590  
(202) 426-0340

**Authority**

U.S.C. Title 23, Highways; more specifically Sections 106 (Specifications), 109 (Standards), 112 (Letting of Contracts), 114 (Construction), and 116 (Maintenance).

**Implementation**

23 CFR 625.3 and 49 CFR

**Application**

Construction, maintenance, materials, and contracting regulations, standards, and practices are applicable to all federally funded highway projects both on and off the federal-aid highway systems. Projects may be administered by the Federal Highway Administration, state highway agency, or local governments. Application and compliance of accepted standards and specifications is assured by on-site inspection, process and product reviews and other management techniques.

**Adoption of  
Nongovernment  
Standards**

The Federal Highway Administration actively participates with industry and state highway agency organizations in the development and implementation of highway construction, material, and maintenance standards and specifications including the American Association State Highway and Transportation Officials, American Society for Testing and Materials, and the Institute of Traffic Engineers.

Qualification, Certification, or Calibration	Actual project standards/specifications are developed by each administering agency (state or local) and are reviewed and approved by the Federal Highway Administration. The general guidance provided by the above noted standards is used as a basis for the locally developed standards/specifications.
Committee Activity	The Federal Highway Administration is actively involved in industry/state highway agency organizations which develop the national standards cited in the CFR. Committees include both management and technical functions of the American Association of State Highway and Transportation Officials, American Society for Testing and Materials, Institute of Traffic Engineers, American Society of Civil Engineers, National Society of Professional Engineers, and American Road and Transportation Builders Association, etc.
Standardization Activities	The Federal Highway Administration administers the federal-aid highway program and continuity of the national highway network from a third party approach. Although seldom the contracting authority, by serving as the nucleus for the highway industry, the Federal Highway Administration assures reasonable standardization without stymieing creativity and new methods development. This approach allows the state highway agency and local governments the maximum flexibility practical while still attaining national uniformity.
Availability	Federal Highway Administration, Government Printing Office, American Association of State Highway and Transportation Officials, and local/state highway agencies.
Keywords	highways; bridges; construction; materials; contracting; traffic control; safety; transportation;

## DEPARTMENT OF TRANSPORTATION

### FEDERAL HIGHWAY ADMINISTRATION

Office of Motor Carriers  
400 7th Street, SW  
Washington, DC 20590  
(202) 366-2519

Authority	Authority to regulate the qualifications and maximum hours of service of employees, the licensing standards for commercial drivers, and safety of operations and equipment is specified in 49 U.S.C. 3102, 3104, and 49 U.S.C. App. 2505, 2701-2716.
	Authority to regulate the transportation of hazardous



materials is provided by the Hazardous Materials Transportation Act - 49 U.S.C. 1801-1813.

Authority to enforce EPA noise control standards applicable to interstate motor carriers is specified in the Noise Control Act - 42 U.S.C. 4917.

Authority to require motor carriers to maintain minimum levels of financial responsibility is specified in 49 U.S.C. 10927 note.

Authority to establish certain federal size limits for commercial motor vehicles is provided by the Surface Transportation Act of 1982 - 49 U.S.C. App.2311,2316.

Authority to penalize States that fail to enforce federal weight limits on the Interstate Highway System is specified in 23 U.S.C. 127.

## Implementation

Mandatory regulations are codified in Title 49 and 23 of the Code of Federal Regulations. The rules in Title 49 range from the Federal Motor Carrier Safety Regulations (FMCSRs) [Parts 390-399], including the hours of service of drivers [Part 395], to compliance with interstate noise emission standards [Part 325], minimum levels of financial responsibilities [Part 387], and the transportation of hazardous materials [Parts 171-173, 177-178]. They cover interstate motor carriers of passengers and property, as well as their vehicles and drivers.

In addition, Commercial Drivers's License (CDL) standards are codified in 49 C.F.R. Part 383 and apply to States, employers, and all drivers of commercial motor vehicles having a gross vehicle weight rating over 26,000 lbs., designed to carry 16 or more persons, or needing placarding for hazardous materials. Unlike other Parts of the FMCSRs, the CDL regulations apply without distinction to inter- and intrastate transportation. CDL provisions include a prohibition on multiple licenses; testing and licensing procedures which States and drivers must follow; employer responsibilities; mandatory driver disqualifications for alcohol, drug, and other serious traffic violations and felonies; and a nationwide information clearinghouse on commercial drivers. Vehicle size and weight regulations and state certification requirements are codified in 23 C.F.R. 657-658. These include regulation of vehicle lengths and widths on the National Network for large trucks (published in Appendix A to Part 658) which consists of the Interstates and other designated federal-aid Primary highways.



**Application**

Office of Motor Carrier Safety specialists conduct safety and compliance reviews of motor carriers and hazardous materials shippers. They also conduct roadside inspections of vehicles and of drivers' required paperwork. Vehicles and/or drivers not in compliance with the FMCSRs are placed out of service where certain hazards to safety increase the likelihood of an accident.

Office of Motor Carrier transportation specialists review state compliance with the CDL program as well as States' certifications that they are enforcing federal size and weight limits and all state laws on federal-aid highways in the State.

**Adoption of Standards**

The FMCSR and the CDL standards have been adopted in whole or in part by most of the states. CDL program implementation is mandatory for each State, to avoid a reduction in highway funding. States are required to test and issue CDLs to all drivers of commercial motor vehicles prior to April 1, 1992. Supplemental grants to assist in CDL implementation are available to States based on the number of CDL tests given and licenses issued. Also, States applying for funding under the Motor Carrier Safety Assistance Program (MCSAP) are required to have adopted the FMCSRs or have compatible state safety regulations.

Each state must enforce the federal size and weight requirements on their Interstate highways. They must enforce the federal size requirements on their National Network highways. States are required to certify annually that they are enforcing their size and weight laws on all of their federal-aid highways. States whose enforcement efforts on federal-aid highways are inadequate may lose 10-percent of their federal-aid highway funds.

**Availability**

FHWA regulations are available from the Government Printing Office and several private organizations.

**Keywords**

commercial motor vehicles; motor carrier; commercial drivers license; hazardous materials; bus; truck; driver qualifications;

**DEPARTMENT OF TRANSPORTATION****FEDERAL HIGHWAY ADMINISTRATION**

Office of Traffic Operations  
400 7th Street, SW  
Washington, DC 20590  
(202) 366-0411 or (202) 366-0372

<b>Authority</b>	23 U.S.C. 109, Standards, December 20, 1944, the Federal-Aid Highway Act of 1944.
<b>Implementation</b>	23 CFR 655, Subpart F, Traffic Control Devices on federal-aid and other streets and highways. A set of national standards have been developed and approved by the Federal Highway Administrator in cooperation with the state highway agencies. These standards are contained in the Manual on Uniform Traffic Control Devices (MUTCD). The Federal Highway Administration will only approve state or other federal agency MUTCDs (or supplements) that are in substantial conformance with the national MUTCD.
<b>Application</b>	The standards contained in the MUTCDs apply to all highways open to public travel.
<b>Committee Activity</b>	<p>The MUTCD was developed with cooperation of the:</p> <p>National Committee on Uniform Traffic Control Devices  American Association of State Highway and Transportation Officials  Institute of Transportation Engineers  National Committee on Uniform Traffic Laws and Ordinances  National Association of Counties  National Association League of Cities  National Association of Governors' Highway Safety Representatives  International Association of Chiefs of Police, Inc.  National Electrical Manufacturers Association  American Road and Transportation Builders Association  International Bridge, Tunnel, and Turnpike Association</p>
<b>Standardization Activities</b>	<p>Existing Highways -- Each state, in cooperation with its political subdivisions, and federal agencies shall have a program which shall include provisions for the systematic upgrading of substandard traffic control devices and for the installation of needed devices to achieve conformity with the MUTCD.</p> <p>New or Reconstructed Highways -- federal-aid projects for the construction, reconstruction, resurfacing, restoration, or rehabilitation of streets and highways shall not be opened to the public for unrestricted use until all appropriate traffic control devices, either temporary or permanent, are installed and functioning properly. Both temporary and permanent devices shall conform to the MUTCD.</p> <p>Construction Area Activities -- All traffic control devices installed in construction areas shall conform to the MUTCD.</p>

**Availability** The MUTCD is available from the Government Printing Office

**Keywords** traffic control devices; curb and pavement markers; regulatory signs; warning signs; public safety; transportation;

DEPARTMENT OF TRANSPORTATION

MARITIME ADMINISTRATION

Office of Ship Construction, Division of Naval Architecture  
400 Seventh Street, SW, Room 2109  
Washington, DC 20590  
(202) 366-5836

**Authority** The development of guidance specifications for ship construction was first authorized May 20, 1960, by the Federal Maritime Board.

**Implementation** There are three shipbuilding guidance specifications which are for voluntary use: (1) Standards Specifications for Merchant Ship Construction PB 290400; (2) Standards Specifications for Diesel Merchant Ship Construction PB 257261; (3) Standards Specifications for Slow Speed Diesel Merchant Ship Construction.

**Application** The guidance specifications are for voluntary use by shipbuilders.

**Adoption of Nongovernment Standards** Those referred to include: American Society for Testing and Materials (ASTM), American Society of Mechanical Engineers (ASME), Heat Exchange Institute, and American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE).

**Qualification, Certification, or Calibration** There are no specific requirements for use of the guidance specifications.

**Committee Activity** American Society for Testing and Materials

**Standardization Activities** Active in the preparation of consensus shipbuilding standards through ASTM.

**Availability** National Technical Information Service

**Keywords** shipbuilding specifications; transportation;



**DEPARTMENT OF TRANSPORTATION**

**NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION**

see DEPARTMENT OF COMMERCE

**NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY**  
National Engineering Laboratories  
Law Enforcement Standards Laboratory

**DEPARTMENT OF TRANSPORTATION**

**RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION**

Office of Pipeline Safety, Standards Division  
400 7th Street, SW  
Washington, DC 20590  
(202) 426-2392

**Authority**

Natural Gas Pipeline Safety Act of 1968 (49 U.S.C. 1671 et seq.)

Hazardous Liquid Pipeline Safety Act of 1979 (49 U.S.C. 2001 et seq.)

**Implementation**

Standards for pipelines that carry natural gas or gas that is flammable, toxic, or corrosive are in 49 CFR, Part 192.

Standards for liquified natural gas (LNG) plants are in 49 CFR, Part 193.

Standards for interstate pipelines carrying hazardous liquids, such as petroleum, petroleum products, or anhydrous ammonia are in 49 CFR, Part 195.

Regulations to require an anti-drug program for pipeline & LNG plant employees that perform operation, maintenance and emergency-response functions are in 49 CFR, Part 199.

**Application**

Standards are binding on pipeline operators by law. Federal and state inspectors visit operators' facilities to check on compliance.

**Adoption of  
Nongovernment  
Standards**

The federal standards incorporate by reference parts of nongovernment developed standards, principally API, ASTM, ANSI and NFPA.

**Committee  
Activity**

The Office of Pipeline Safety sponsors two advisory committees: The Technical Pipeline Safety Standards Committee and the Technical Hazardous Liquid Pipeline Safety Standards Committee. These committees advise on

proposed rule making activities.

Staff members participate in or are members of various nongovernment standards setting committees, including those of the ASME, API, and NFPA.

**Standardization  
Activities**

Standards cover design, construction, operation, and maintenance of pipelines. Benefits derive from savings in life and property damage, including environmental damage in the case of oil spill prevention. Original standards were based on standards widely followed by industry. Subsequent efforts have been directed toward improvements needed for safety as demonstrated by accident statistics, and toward changing regulations that are not cost beneficial.

**Availability**

Sold by Government Printing Office, and very small quantities available from Office of Pipeline Safety

**Keywords**

safety; gas; hazardous liquids; pipeline; LNG plants; design; construction; operation; maintenance; corrosion control; transportation; drugs; petroleum;

**DEPARTMENT OF TRANSPORTATION**

**UNITED STATES COAST GUARD**

Office of Marine Safety, Security and Environmental Protection  
2100 Second Street, SW  
Washington, DC 20593-0001  
(202) 267-2200

**Authority**

Maritime shipping laws related to vessels and seamen are codified and enacted into positive law as Subtitle II of Title 46, United States Code, 2101 through 13110.

**Implementation**

Mandatory standards for commercial vessel construction and operation, as well as manning and personnel licensing, are codified in 46 and 33 CFR. Program is administered under the direction of the Chief, Office of Merchant Marine Safety, U.S. Coast Guard (USCG) Headquarters. A system of district and local port offices (marine safety offices/officers in charge, marine inspection) provide inspection and licensing services to assure compliance with the standards and regulations by shipyards, vessel operators, and merchant mariners.

**Application**

USCG inspectors periodically inspect commercial, foreign, and domestic vessels to assure compliance.

<b>Adoption of Nongovernment Standards</b>	USCG commercial vessel safety regulations incorporate a wide variety of nongovernment standards by reference.
<b>Committee Activity</b>	The Office of Merchant Marine Safety, Security and Environmental Protection participates in those standards developing committees whose standards are used by, or affect, the merchant marine. These include the International Maritime Organization (IMO), ISO, and IEC, as well as the Society of Naval Architects and Marine Engineers (SNAME), American Bureau of Shipping (ABS), ASTM, ASME, API, UL, and a dozen other domestic organizations.
<b>Standardization Activities</b>	USCG commercial vessel safety standards are incorporated into the United States Code of Regulations, Titles 46 and 33. The marine inspection program's regulatory approach includes active participation in voluntary standards programs. By actively participating in voluntary standards, the Coast Guard raises issues of public interest and can speak for the public in matters of safety. Also, where industry or owners have not set necessary safety requirements, the Coast Guard can catalyze their development.
<b>Availability</b>	Sold by Government Printing Office
<b>Keywords</b>	ship design; safety; hazardous material; marine engineering; naval architecture; inspection; stability; fire protection; merchant marine; transportation;

## DEPARTMENT OF TRANSPORTATION

### UNITED STATES COAST GUARD

Recreational Boating Product Assurance Branch (G-NAB-6)  
 Auxiliary, Boating, and Consumer Affairs Division  
 Washington, DC 20593-0001  
 (202) 267-0984

<b>Authority</b>	Federal Boat Safety Act 1971 (46 U.S.C. 43)
<b>Implementation</b>	Standards issued to date are in 33 CFR Part 183 and include: <ol style="list-style-type: none"> <li>(1) Display of Capacity Information</li> <li>(2) Safe Loading</li> <li>(3) Safe Powering</li> <li>(4) Basic Flotation</li> <li>(5) Level Flotation</li> <li>(6) Electrical Systems</li> <li>(7) Fuel Systems</li> </ol>



- (8) Ventilation
- (9) Start-In-Gear Protection

Application	Boating safety standards are published as mandatory rules in accordance with the Administrative Procedures Act (APA). Final rules become a part of the Code of Federal Regulations. Each proposed rule and each final rule is published in the Federal Register.
Committee Activity	Staff members serve on various committees of the American Boat and Yacht Council, Society of Automotive Engineers, National Fire Protection Association, and American Bureau of Shipping.
Standardization Activities	The Auxiliary, Boating, and Consumer Affairs Division is responsible for the development of regulations related to boating safety. The Recreational Boating Product Assurance Branch of the division is responsible for the development of safety standards for recreational boats and associated equipment. Safety standards must be based upon a demonstrated need. This need is frequently related to research involving actual boating safety problem areas. Problem areas are identified from sources such as the Boating Accident Reports, State Accident Reports, Coast Guard District Reports, Defect Notification Reports, and consumer complaints. Specific problems are identified, categorized, and subdivided into specific project areas for standards development.
Availability	The volume, 33 CFR Parts 1 to 199, is available from the Superintendent of Documents, U.S. Government Printing Office
Keywords	recreational; boats; inboard engine; outboard motor; sterndrive unit;

#### DEPARTMENT OF THE TREASURY

##### BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS

National Laboratory Center  
1401 Research Boulevard  
Rockville, Maryland 20850  
(301) 294-0410

Authority	Various laws relating to the production, storage, and taxation of alcohol and tobacco products, firearms, and explosives.
Implementation and Application	Standards have been established by the Bureau of Alcohol, Tobacco and Firearms (BATF) Laboratories, which apply to hydrometers, thermometers, and William's

test tubes supplied to the Bureau for testing the alcoholic content of beverages. Although these standards are not usually published, they are supplied to bidders for manufacturing contracts.

In cooperation with various industry segments, BATF prescribes and enforces standards of identity for alcoholic beverages. These standards are established by regulations applicable to all such beverages produced in or imported into the United States. Standards for the various classes of wines are published at 27 CFR, Part 4; those for distilled spirits are published at 27 CFR, Part 5.

The BATF Laboratories set specifications for ethyl alcohol, denatured alcohol, proprietary solvents, and special industrial solvents. These are incorporated in Federal Specification O-E-760B, issued by the General Services Administration. Through regulations issued by BATF at 27 CFR, Parts 211 and 212, these specifications are applicable to the production of these products in the United States.

The standards of identity for small cigars, as defined in 26 U.S.C. 5702 and in regulations issued by BATF at 27 CFR, Part 270, are further established by laboratory test procedures set up by the BATF Laboratories. These analytical tests are utilized to enforce these standards for small cigars, as differentiated from cigarettes, upon all such products consumed within the United States.

Additionally, the Bureau sets specifications relating to construction of storerooms for explosive materials. These specifications are published in 27 CFR, Part 181.

**Availability**

National Laboratory Center, BATF. The CFR is available from the Government Printing Office

**Keywords**

instruments; beverages; testing; materials;

**DEPARTMENT OF THE TREASURY**

**INTERNAL REVENUE SERVICE (IRS)**

Office of Standards and Data Administration (ISD:I:S)  
Room 802, BXR-5  
1111 Constitution Avenue, NW  
Washington, DC 20224  
(703) 756-6381

**Authority**

Treasury Directive 87-01 (TD 87-01), Information Systems Standards Program, states that it is the policy



of the Department of Treasury to comply with all mandatory Federal Information Processing Standards (FIPS) and Federal Telecommunications Standards (FED-STDs) and other information systems standards and guidelines to the extent they are determined to be cost-effective and appropriate for the intended use.

#### **Implementation**

The Office of Standards and Data Administration (ISD:I:S) is responsible for researching, adopting, and promoting federal standards to ensure portable applications and systems. This includes ensuring that the automated tools procured for use in systems development comply with established FIPS and IRS standards. The Office is developing the System Development Methodology (SDM) which is a set of integrated guidelines that provide a standard framework for the development of automated information systems (AIS) within IRS. Software development within and for IRS must follow the Software Development Life Cycle (SDLC) methodology which was developed in accordance with Treasury Directives and FIPS and is being updated to include communication standards.

#### **Adoption of Nongovernment Standards**

The majority of the IRS standards are incorporated from Treasury Directives, FIPS publications, FED-STDs, American National Standards Institute (ANSI), Institute of Electrical and Electronics Engineers (IEEE) and International Telegraph and Telephone .

#### **Qualification, Certification, or Calibration**

Treasury Directive 85-02 (TD 85-02), Automated Information Systems Security and Risk Management Program, establishes the policy with respect to ensuring adequate security for automated information systems, applications, and facilities within the Department of Treasury. This Treasury Directive is intended to fulfill the requirements of Office of Management and Budget (OMB) Circulars A-130 and A-123, and National Security Decision Directive (NSDD)-145.

#### **Committee Activity**

IRS is in the process of identifying and standardizing data for electronic interchange through participation in ANSI Accredited Standards Committee X.12, Electronic Data Interchange (EDI). IRS and the state tax agencies which are represented through the Federation of Tax Administrators are working together to standardize data for EDI.

#### **Standardization Activities**

Periodically task groups are formed to revise existing IRS standards. The Office is working with applications systems developers, within IRS, to test, evaluate and refine the standards. Also, the Office is evaluating and assessing emerging database related technologies such as image-based processing and object-oriented data



base management systems to determine their feasibility within IRS.

**Keywords**

automated information systems; communication; electronic data interchange; image-based; object-oriented; data processing; information processing;

**DEPARTMENT OF THE TREASURY**

**U.S. CUSTOMS SERVICE**

Office of Commercial Operations  
1301 Constitution Avenue, NW, Room 3117  
Washington, DC 20229  
(202) 566-5868 or (202) 566-5497

**Authority**

United States accession to the Customs Cooperation Council Convention. Instruments of ratification deposited on November 5, 1970.

**Implementation**

The Harmonized Tariff Schedule was implemented on January 1, 1989, as a result of the Omnibus Trade & Competitiveness Act of 1988.

**Application**

The Harmonized System is applied for the impost of customs duties upon the entry of merchandise into the United States and other countries, and for the collection of international trade data.

**Committee Activity**

The U.S. Customs Service (USCS) serves as chairman of the Inter-agency Advisory Committee on Customs Cooperation Council Matters, participates on the Trade Policy Staff Committee and its task force on the Harmonized System, and serves as chairman of the United States delegation of the Harmonized System Committee of the Customs Cooperation Council.

**Standardization Activities**

The Harmonized System Committee of the Customs Cooperation Council developed a standardized system of nomenclature for use in international trade. This is essentially a commodity classification system used as a basis for customs tariffs and the foreign-trade statistical systems of the United States and its trading partners. The system is devised such that it is used as a basis for various other international trade facilitation measures, for example, freight tariffs.

**Availability**

A copy of the Harmonized Tariff Schedule of the United States Annotated is available from the United States International Trade Commission, 701 E Street, NW Washington, DC

**Keywords** customs; harmonized system; international trade; business;

**DEPARTMENT OF THE TREASURY**

**U.S. CUSTOMS SERVICE**

Office of Laboratories and Scientific Services,  
Research Division  
1301 Constitution Avenue, NW  
Washington, DC 20229  
(202) 566-5853

**Authority** Title 19, Code of Federal Regulations

**Implementation** Mandatory laboratory methods are developed and implemented within the U.S. Customs Service (USCS) laboratory system (presently seven laboratories) for the analysis of imported commodities. This effort requires special analyses to obtain information to meet legal requirements for assessing customs duties as legislated or as required internationally by the Harmonized Tariff Schedules. These methods are frequently released to the public through Freedom of Information Act procedures and thereby may also be in use in the private sector.

**Application** The application of these methods is to meet specific tariff requirements as legislated.

**Adoption of Nongovernment Standards** U.S. Customs laboratories most frequently use standards developed by industry groups or other nongovernment organizations such as: API, ASTM, ANSI, etc.

**Qualification, Certification, or Calibration** Samples are selected by Customs inspectors or import specialists on a random or specified basis and sent to the laboratories for analyses. Compliance with legal requirements is determined and the results determine the duty paid by importers. Over 50,000 samples are analyzed annually in this effort.

**Committee Activity** The U.S. Customs laboratory managers and scientists participate in pertinent committees of the American Petroleum Institute, American Society for Testing and Materials, Customs Cooperation Council, American National Standards Institute, International Commission for Uniform Methods of Sugar Analysis, Association of Official Analytical Chemists, the National Voluntary Laboratory Accreditation Program, and the American Chemical Society.

**Availability** Office of Laboratories and Scientific Services, U.S. Customs Service.

**Keywords** sampling; laboratory analysis; laboratory methods;  
customs duties; testing;

**DEPARTMENT OF THE TREASURY**

**U.S. MINT**

Office of Process and Quality Control  
Judiciary Square Building  
633 3rd Street, NW  
Washington, DC 20220  
(202) 376-0453

**Authority** 31 U.S.C. 317 and 391

**Implementation** The U.S. Mint, Department of the Treasury, develops and administers the technical standards for United States coinage. Nominal diameter and weight standards are established by statute. Deviations allowed in the weight of minor coins are established by 31 U.S.C. 350. Thickness standards and other tolerances are developed by the Office of Process and Quality Control, Office of the Director.

**Application** These standards are only imposed internally on the coin manufacturing processes. However, their importance in the development of coin handling and coin operated equipment so commonly found throughout the nation warrants their publication upon request.

**Availability** Written inquiries should be directed to the Director of the Mint, Attention, Office of Process and Quality Control.

**Keywords** coins; finance;

**DEPARTMENT OF VETERANS AFFAIRS**

Office of Acquisition and Material Management  
810 Vermont Avenue, NW  
Washington, DC 20420  
(202) 233-3808

**Authority** Title 38 CFR Chapter I and Title 41 CFR Chapter 8

**Standardization Activities** The standardization activities of the Department of Veterans Affairs (VA) are administered by the Safety, Occupational Health, and Fire Protection Division. The Division establishes VA standards as supplements to adopted national standards. Currently there are twenty-six VA standards including the following twenty



product and safety related items:

Carpet Fire-Safety Requirements in Health Care Facilities  
Automatic Fire Extinguishing Protection  
Air Conditioning Systems  
Magnetic Door Locks  
Liquid Oxygen Walker Units  
Trash Containers  
Exit Through ICU and CCU  
Food Service Equipment and Facilities  
Lasers  
Pipetting in Hospital Laboratories  
Electron Microscopes  
Microwave Ovens  
Carcinogenic Chemicals  
Noise  
Bathtubs  
Laboratory Safety Equipment - Safety Showers and Eyewashes  
Electrical Safety  
Prohibition of Using Lead-Based Paint  
Storage, Preparation, and Consumption of Food and Beverages by Employees in Places of Work

**Availability** Policy Manual MP-3, Part III lists current standards and is available from the address above.

**Keywords** medical devices; air conditioning; consumer products; plumbing; food; safety; noise;

**U.S. POSTAL SERVICE**

Marketing Department  
475 L'Enfant Plaza, SW  
Washington, DC 20260-6300  
(202) 268-2222

**Implementation** Standards for producing letter size mail which is properly designed and addressed for successful sorting on automated processing equipment are contained in two publications from the U.S. Postal Service; Publication 25, A Guide to Business Mail Preparation, and Publication 28, Postal Addressing Standards.

**Application** All business mailers are encouraged to follow the recommendations contained in both documents. Compliance with the standards is strictly voluntary, except in connection with certain postage discount programs.

<b>Qualification, Certification, or Calibration</b>	Assistance in determining compliance with the standards is available through all large city post offices. Requests for assistance and testing on automated equipment should be directed to a postal Automation Readability Specialist or Account Representative at those locations.
<b>Availability</b>	Publications 25 and 28 are available, without cost, through all city post offices. Requests for the documents may be directed to any postal marketing representative.
<b>Keywords</b>	addressing; address format; OCR readability; pre-barcoding; information processing; business; communications;

#### **U.S. POSTAL SERVICE**

Technology Resource Department  
475 L'Enfant Plaza, SW  
Washington, DC 20260-8100  
(202) 268-3850

<b>Authority</b>	39 U.S.C.: 101, 401, 403, 404, 407, 3001-2, 3621-84
<b>Implementation</b>	Standards for mail are included in the Domestic Mail Manual and the International Mail Manual, published by the U.S. Postal Service.
<b>Application</b>	Mail standards are applied by trained postal employees verifying compliance at the point the mail enters Postal Service custody. Trained postal employees also provide information on mail standards to mailers who produce large mailings and to suppliers of mailing materials to the public.
<b>Adoption of Nongovernment Standards</b>	There are no nongovernment generated standards for mail. Standards for international mail generally are produced through agreement according to procedures set by the international postal body, the Universal Postal Union (UPU). Standards for domestic mail generally are developed in consultation with the mailing industry body, the Mailers Technical Advisory Committee (MTAC), and may be subject to approval by the independent Postal Rate Commission prior to implementation. Mail standards have a direct relationship to postal rates: standards are used to define mail classes and rates are set according to mail classes.
<b>Qualification, Certification, or Calibration</b>	There are no requirements for qualification, certification, or calibration related to mail standards.

Committee Activity	The U.S. Postal Service participates in UPU and MTAC committees involved in mail standards.
Standardization Activities	The U.S. Postal Service standardization activities involve the UPU, MTAC and the Postal Rate Commission.
Availability	The Domestic Mail Manual and the International Mail Manual are available as a subscription sold by the Government Printing Office.
Keywords	mail; classification; rates; communications; business;

U.S. TRADE REPRESENTATIVE

see EXECUTIVE OFFICE OF THE PRESIDENT



#### 4. SOURCES OF STANDARDS AND INFORMATION

Standards usually are obtained directly from the developing organization or from commercial distributors or government repositories. A number of libraries and standards organizations maintain major collections of standards that are open to the public. This section lists distributors of standards in this country and abroad and libraries and information centers. Union Lists detailing collections of standards at libraries within various geographic areas are also presented.

This information is provided as a service to readers seeking local sources for standards and related materials. It should be emphasized that no endorsement of comprehensiveness, quality, or cost should be inferred, and that potential users must perform their own evaluations.

##### 4.1 DISTRIBUTORS

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## AMERICAN NATIONAL STANDARDS INSTITUTE

Jules Richardson, Director of Customer Service

1430 Broadway  
New York, New York 10018  
(212) 642-4953

TELEX: 42 42 96 ANSI UI  
FAX: (212) 398-0023

Founded: 1918

### Type of Organization

Nonprofit

### Number of Standards

9,500 U.S. Nongovernment  
252,000 Other

### Types of Standards

U.S. NONGOVERNMENT:  
9,500 American National Standards that deal with dimensions, ratings, terminology, symbols, test methods, and performance and safety requirements for materials, equipment, components, and a wide range of products.

INTERNATIONAL:  
7,400 international standards issued by the International Organization for Standardization (ISO) and 2,800 issued by the International Electrotechnical Commission (IEC).

FOREIGN NATIONAL:  
360,000 standards of 86 national standards organizations that are members of the International Organization for Standardization.

OTHER:  
Standards and drafts issued for vote by European Committee for Standardization (CEN) and the European Committee for Electrotechnical Standardization (CENELEC).

### Availability of Prior Editions

Recently superseded American National Standards available in microform from Information Handling Services (IHS).

### Medium

Paper, microfilm cartridges, and microfiche.

### Indexing

Indexes available from ANSI in paper include:

- Annual Catalog of American National Standards and supplements--subject and alphanumeric.

- Annual Catalogs issued by International Organization for Standardization; International Electrotechnical Commission (subject and alphanumeric) and a Keyword In Context Index of International Standards.
- Catalogs of foreign national and regional standards organizations.

#### Related Standards Services

ANSI is the coordinator of the U.S. voluntary standards system. Its membership consists of over 1,100 companies, 250 professional, technical, trade, labor, and consumer organizations; and 30 government agencies. It is the official U.S. representative to the two major non-treaty international standardizing bodies - The International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) through the U.S. National Committee (USNC). ANSI serves both the private and public sector's need for voluntary standardization.

#### Foreign Sales Offices for U.S. Standards

Member bodies of ISO in 73 countries.

American Technical Publishers Ltd. (ATP)  
Hitchin, Herts, SG4 0SX  
England

London Information (ILI)  
Ascot, Berks SL5 7EU  
England

Japan Standards Association (JSA)  
Minato-ku, Tokyo 107  
Japan

#### AMERICAN TECHNICAL PUBLISHERS, LTD.

27-29 Knoll Piece  
Wilbury Way  
Hitchin, Herts, SG4 0SX  
England

Telephone: 0462 437933      TELEX: 825684 ATP G  
FAX: 0462433678

Founded: 1980

#### Type of Organization

Private for profit

#### Number of Standards

15,000 U.S. nongovernment standards in stock

#### Types of Standards

U.S. NONGOVERNMENT:  
ACI American Concrete Institute



ANSI American National Standards Institute  
ASTM American Society for Testing and Materials  
EIA Electronic Industries Association  
NACE National Association of Corrosion Engineers  
ISA Instrument Society of America  
SAE Society of Automotive Engineers  
TAPPI Technical Association of the Pulp and Paper  
Industry

**Medium** Paper and microfiche  
**Indexing** Individual alpha-numeric indexes available.

**BOOK SUPPLY BUREAU**

C. Krishnan, Director  
D-44 South Extension 1  
New Delhi 110 049  
India  
Telephone: 611 991                      TELEX: 31-66690  
Founded: 1972

**Type of Organization** Private for profit  
**Types of Standards** All current ANSI standards and many other U.S., other foreign, and international standards.  
**Medium** Paper  
**Related Standards Services** Issue monthly bulletin about new standards and revisions.

**DOCUMENT CENTER**

Claudia Bach, Owner  
1504 Industrial Way  
Unit 9  
Belmont, California 94002  
(415) 591-7600                      FAX: (415) 591-7617

**Type of Organization** Private for profit  
**Number of Standards** 125,000 U.S. Government Standards  
25,000 U.S. Industry Standards  
5,000 Foreign Standards

**Types of  
Standards**

**U.S. GOVERNMENT:**

All military standards and specifications, etc., as listed in the Department of Defense Index of Specifications and Standards.

Other military standards (Army, Air Force, Defense Logistics Agency, DESC, Navy, etc.).

Other federal standards (NASA, FCC, FAA, GSA, etc.).

**U.S. NONGOVERNMENT**

All ASTM, EIA, ANSI, SAE, AWS, IPC, IEEE, SEMI, NFPA, and others.

**INTERNATIONAL AND FOREIGN:**

IEC, ISO, BSI, DIN, VDE, JIS, CSA, and others.

**OTHER TECHNICAL AND REGULATORY INFORMATION:**

GPO Publications, such as the Code of Federal Regulations, etc.

NTIS Publications, such as the FIPS, etc.

Draft Standards

Cancelled Standards

**Availability of  
Prior Editions**

Many cancelled documents are in stock. Those not in stock can normally be quoted for price and availability.

**Medium**

Primarily paper, although some microfiche copies are available.

**Indexing**

Alpha-numeric

Historical (such as the DODISS Cancelled Documents Index).

**Related  
Standards  
Services**

Automatic Updating Service

**DOCUMENT ENGINEERING CO., INC.**

Eric Molinari, President

15210 Stagg Street

Van Nuys, California 91405

(213) 873-5566 and

(800) MIL-SPEC

FAX: (818) 782-2374

Founded: 1958

**Type of  
Organization**

Private for profit

<b>Number of Standards</b>	75,000 U.S. Government 6,000 U.S. Nongovernment
<b>Types of Standards</b>	U.S. GOVERNMENT:  All military standards, specifications, and related documents listed in the Department of Defense Index of Specifications and Standards.  U.S. NONGOVERNMENT:  American National Standards Institute, American Society for Testing and Materials, SAE, Aerospace Material Specifications, American Welding Society, Institute of Electrical and Electronics Engineers, Electronic Industries Association, Institute for Interconnecting and Packaging Electronic Circuits.
<b>Availability of Prior Editions</b>	Documents listed in the Department of Defense Cancelled Index related to the defense/aerospace industries.
<b>Medium</b>	Paper
<b>Indexing</b>	Indexes are conventional alpha-numeric, as well as numeric within Federal Supply Classes. All indexes are available on paper only.
<b>Related Standards Services</b>	Automatic Updating Service Military Sheet Form Standards (MS, AN, AND series) Service Qualified Products List Service
<b>Trade Names</b>	DECO

**GLOBAL ENGINEERING DOCUMENTS**  
**DIVISION OF INFORMATION HANDLING SERVICES**

Bill Braley, General Manager  
  
2805 McGaw Avenue  
P.O. Box 19539  
Irvine, California 92713-9539  
(714) 261-1455  
(800) 854-7179                      TELEX: 692 373  
  
Founded: 1968

<b>Type of Organization</b>	Private for profit
<b>Number of Standards</b>	40,000 U.S. Government 20,000 U.S. Nongovernment



## Types of Standards

### U.S. GOVERNMENT:

All military and federal standards, specifications, handbooks, Commercial Item Descriptions (CID's), Data Item Descriptions (DID's), Qualified Products Lists (QPL's), directives and regulations including Armed Services Procurement Regulations/Defense Acquisition Regulations. Also all NATO standards and quality assurance publications, standardization publications of the Army, Navy, and Air Force, and Federal Acquisition Regulations.

Standards and related publications of the following federal agencies are also stocked: NASA, NIST, Nuclear Regulatory Commission (NRC), DOT, FAA, FCC, GPO, GSA, HUD, OSHA, and NTIS.

### U.S. INDUSTRY STANDARDS:

ACI	American Concrete Institute
AGA	American Gas Association
AGMA	American Gear Manufacturers Association
AIA	American Institute of Architects
AISC	American Institute of Steel Construction
ANS	American Nuclear Society
ANSI	American National Standards Institute
API	American Petroleum Institute
ARI	Air Conditioning and Refrigeration Institute
ARINC	Aeronautical Radio, Incorporated
ASA	Acoustical Society of America
ASHRAE	American Society of Heating, Refrigerating and Air Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AWS	American Welding Society
AWWA	American Water Works Association
EIA	Electronic Industries Association
ICBO	International Conference of Building Officials
IEEE	Institute of Electrical and Electronics Engineers
IES	Illuminating Engineering Society
IPC	The Institute for Interconnecting and Packaging Electronic Circuits
ISA	Instrument Society of America
MSS	Manufacturers Standardization Society of the Valve and Fittings Industry
NACE	National Association of Corrosion Engineers
NAS	National Aerospace Standards (produced by Aerospace Industries Association)
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association
NFPA	National Fluid Power Association
RTCA	Radio Technical Commission for Aeronautics
SAE	Society of Automotive Engineers

SSPC	Steel Structures Painting Council
TAPPI	Technical Association of the Pulp and Paper Industry
UL	Underwriters Laboratories

#### INTERNATIONAL AND NON-U.S. NATIONAL INDUSTRY STANDARDS

AFNOR	Association Francaise De Normalisation
BSI	British Standards Institution
CCITT	International Telegraph & Telephone Consultative Committee
CEN	Comite Europeen de Normalisation (European Committee for Standardization)
CENELEC	Comite Europeen de Normalisation d'Electrotechnique (European Committee for Electrotechnical Standardization)
CNS	Chinese National Standards (Republic of China)
CSA	Canadian Standards Association
DEF	British Defence Standards
DIN	Deutsches Institut für Normung
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
JIS	Japanese Industrial Standards
SAA	Standards Association of Australia
VDE	Verband Deutscher Elektrotechniker

#### Availability of Prior Editions

Global has many superseded documents, some dating back to 1946. Stock practically all prior issues of DODISS documents.

#### Medium

Paper

#### Indexing

No index available. Availability can be ascertained by phone.

#### Related Standards Services

Spec-Tree Reports. NSN Research Service

#### GOVERNMENT PRINTING OFFICE

Superintendent of Documents  
Washington, DC 20402  
(202) 275-3054

Founded: 1895

#### Type of Organization

Governmental

#### Types of Standards

Neither the GPO nor the Superintendent of Documents issues or publishes standards per se. However, as the

principal sales agency for Government publications, the Superintendent of Documents' inventory of available publications contains hundreds that relate to standards or which contain standards issued by the various Departments and agencies of the Government. A few examples of the publications available are: The Department of Defense Index of Specifications and Standards; Standards for Specifying Construction of Airports; Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects; Government Paper Specifications Standards.

The DOD's Military Specifications and Standards and GSA's Federal Specifications and Standards are not available from GPO. Only the indexes for these publications are distributed by GPO. The standards and specifications are available from Naval Publications and Forms Center and the GSA Specifications Unit, respectively.

Medium                      Paper

#### INFORMATION HANDLING SERVICES

Jay Jordan, President

15 Inverness Way East  
Englewood, Colorado 80150  
(303) 790-0600  
(800) 525-7052

TELEX: 4322083 IHS UI

Founded: 1959

Type of  
Organization

Private for profit

Number of  
Standards

190,000 U.S. Government  
43,000 U.S. Nongovernment  
12,000 International  
75,000 Non-U.S. National

Types of  
Standards

U.S. GOVERNMENT:  
All Military Standards, Specifications and related documents  
Federal Standards, Specifications and related documents  
Federal Construction Regulations and Standards  
Federal Aviation Administration Standards  
Dept. of Veterans Affairs Specifications  
Nuclear Regulatory Commission Regulations and Standards

U.S. NONGOVERNMENT:  
Acoustical Society of America  
Aeronautical Radio, Inc.



Aerospace Industries Association of America, Inc. (NAS)  
 Air-Conditioning and Refrigeration Institute  
 Aluminum Association, Inc.  
 American Association of State Highway and  
 Transportation Officials  
 American Association of Textile Chemists and Colorists  
 American Bureau of Shipping  
 American Concrete Institute  
 American Gas Association  
 American Gear Manufacturers Association  
 American Institute of Architects  
 American Institute of Chemical Engineers  
 American Institute of Steel Construction, Inc.  
 American Iron and Steel Institute  
 American National Standards Institute  
 American Nuclear Society  
 American Petroleum Institute  
 American Railway Engineering Association  
 American Society of Agricultural Engineers  
 American Society of Civil Engineers  
 American Society of Heating, Refrigerating and  
 Air-Conditioning Engineers  
 American Society of Mechanical Engineers  
 American Society for Nondestructive Testing  
 American Society for Quality Control  
 American Society of Sanitary Engineering  
 American Society for Testing and Materials  
 American Water Works Association  
 American Welding Society  
 Anti-Friction Bearing Manufacturers Association  
 Asphalt Institute  
 Association for Information and Image Management  
 Association for the Advancement of Medical  
 Instrumentation  
 Builders Hardware Manufacturers Association, Inc.  
 Compressed Gas Association, Inc.  
 Cooling Tower Institute  
 Electronic Industries Association  
 Gas Processors Association  
 Illuminating Engineering Society  
 Industrial Fasteners Institute  
 Institute of Electrical and Electronics Engineers  
 Institute for Interconnecting and Packaging Electronic  
 Circuits  
 Instrument Society of America  
 International Society for Hybrid Microelectronics  
 Manufacturers Standardization Society of the Valve and  
 Fittings Industry  
 National Association of Corrosion Engineers  
 National Electrical Manufacturers Association  
 National Environmental Balancing Bureau  
 National Fire Protection Association  
 National Fluid Power Association  
 National Sanitation Foundation

Nuclear Regulatory Commission Service  
 Pipe Fabrication Institute  
 Plastics Pipe Institute  
 Radio Technical Commission for Aeronautics  
 Resistance Welder Manufacturers Association  
 Semiconductor Equipment and Materials Institute, Inc.  
 Sheet Metal & Air Conditioning Contractors' National  
 Association, Inc.  
 Society of Automotive Engineers  
 Steel Joist Institute  
 Steel Structures Painting Council  
 Technical Association of the Pulp and Paper Industry  
 Underwriters Laboratories, Inc.

INTERNATIONAL AND REGIONAL:

CENELEC Electronic Components Committee (CECC)  
 Conference of European Postal and Telecommunications  
 Administration (CEPT)  
 European Association for Materials of Aerospace  
 Construction (AECMA)  
 European Committee for Standardization/European  
 Committee for Electrotechnical  
 Standardization (CEN/CENELEC)  
 European Computer Manufacturers Association (ECMA)  
 European Organization for Civil Aviation Electronics  
 (EUROCAE)  
 European Telecommunications Standards Institute (ETSI)  
 NATO Standardization Documents  
 International Civil Aviation Organization (ICAO)  
 International Consultative Committee for Telegraph and  
 Telephone (CCITT)  
 International Electrotechnical Commission (IEC)  
 International Organization for Standardization (ISO)  
 International Radio Consultative Committee (CCIR)

NON-U.S. NATIONAL:

Association Francaise de Normalisation (AFNOR)  
 British Civil Aviation Authority (CAA)  
 British Standards Institution  
 Canadian General Standards Board  
 Canadian Standards Association  
 Chinese National Standards (ROC)  
 Deutsches Institut fur Normung (DIN)  
 Japanese Standards Association (JIS)  
 Saudi Arabian Standards Organization  
 Society of British Aerospace Companies (SBAC)  
 Standards Association of Australia

**Availability of  
 Prior Editions**

American Gas Association from 1923  
 American National Standards Institute from 1970  
 American Nuclear Society from 1976  
 American Petroleum Institute (Production) from 1924  
 American Society of Mechanical Engineers from 1968

American Society for Testing and Material from 1970  
American Welding Society from 1942  
Institute of Electrical and Electronic Engineers from  
1970  
National Electrical Manufacturers Association from 1970  
National Fire Protection Association from 1896

Victor Garaycochea, President

1200 Quince Orchard Boulevard  
Gaithersburg, Maryland 20878  
(301) 590-2300 FAX: (301) 990-8378  
TELEX: 44-6194 NATSTA GAIT

Founded: 1946



<b>Types of Standards</b>	<p>U.S. GOVERNMENT:  The entire file of Department of Defense listed military and federal specifications and standards including handbooks, MS drawings, QPLs, DIDs, CIDs, plus NATO, and related standards.</p> <p>U.S. NONGOVERNMENT:  ASTM            American Society for Testing and Materials  SAE             Society of Automotive Engineers  AIA             Aerospace Industries Association (NAS's)  UL              Underwriters Laboratories  EIA             Electronic Industries Association</p>
<b>Availability of Prior Editions</b>	Military specifications and standards dating back to the early 1940's.
<b>Medium</b>	Compact disc (CD-ROM), paper, microfiche
<b>Indexing</b>	For microfiche, alphabetical, numerical and Federal Supply Class on paper On-line Database In software for CD-ROM products
<b>Related Standards Services</b>	<p>Call-in service for ordering individual documents including industry standards not provided as a subscription service by National Standards Association.</p> <p>Standards and Specifications (File 113) is an on-line index of all U.S. government and industry standards, specifications, and related documents.</p> <p>The Identified Sources of Supply is published annually with quarterly updates. It lists sources of products and materials conforming to industry and government standards.</p>
<b>Trade Names</b>	Parts-Master, Specmaster

#### NATIONAL TECHNICAL INFORMATION SERVICE

U.S. Department of Commerce  
5285 Port Royal Road  
Springfield, Virginia 22161  
(703) 487-4650                      FAX: (703) 321-8547  
1-800-336-4700

Founded: 1970 (predecessor 1946)

**Type of Organization**

Governmental

**Types of Standards**

U.S. GOVERNMENT:  
Some military standards

Nuclear  
Medical  
Environmental  
Food and Drug

U.S. NONGOVERNMENT:  
American National Standards Institute publications  
cited in government standards.

**Availability of  
Prior Editions**

Retain all prior editions.

**Medium**

Paper and microfiche

**Indexing**

Government Report Abstracts and Index Journal published  
biweekly.

**Foreign Sales  
Offices for  
U.S. Standards**

NTIS has distribution agreements in 42 countries  
including:

Argentina  
Suministros Asociados S.A.  
Buenos Aires

Australia  
Info-Line  
Broadway N.S.W.

Brazil  
PTI Ltda.  
Sao Paulo

England  
Microinfo Limited  
Alton, Hampshire

France  
World Data  
Paris

India  
Allied Publishers Ltd.  
Madras

Italy  
Diffusione Edizioni Anglo-Americane (DEA)  
Rome

Japan  
Mitsubishi Research Institute Inc.  
Tokyo

The Netherlands  
Bibliotheek TU Delft

Portugal  
Consulplano SA  
Lisbon

Sweden  
Studsvik Energiteknik AB  
Nykoping

Taiwan  
National Science Council  
Science and Technology Information Center  
Taipei

**NAVAL PUBLICATIONS AND FORMS CENTER**

Mrs. Alice S. Bell

U.S. Navy  
5801 Tabor Avenue  
Philadelphia, Pennsylvania 19120-5099  
(215) 697-1187 thru 1195   TELEX: 834295

**Type of  
Organization**

Governmental

**Number of  
Standards**

45,000 U.S. Government  
4,600 U.S. Nongovernment  
1,500 Other

**Types of  
Standards**

U.S. GOVERNMENT:  
All military and federal standards, specifications and related documents listed in the Department of Defense Index of Specifications and Standards.

U.S. NONGOVERNMENT:  
Standards are ONLY provided to DoD Agencies. These include:

Aerospace Industries Association, National Aerospace Standards  
American National Standards Institute  
American Society of Mechanical Engineers  
American Society for Testing and Materials  
American Welding Society

INTERNATIONAL:  
NATO Standardization Agreements

**Availability of  
Prior Editions**

Superseded or cancelled documents must be ordered from the procurement or contracting officer of a military activity citing need for the document.



**Medium**

Paper

**Indexing**

The Department of Defense Index of Specifications and Standards is available in printed book form and microfiche. It is a three part listing: alpha, numeric, as well as numeric within Federal Supply Classes.

The printed edition is available from: Government Printing Office, Washington, DC 20402.

The microfiche edition is available from: Director, Navy Publications and Printing Service Office, 700 Robbins Avenue, Philadelphia, Pennsylvania 19111. Both media are available to DoD activities from NPFC.

**Related  
Standards  
Services**

New and/or revised releases of Military and Federal Specifications and Standards (including Qualified Products Lists) which are to be listed in the DODISS are available on a subscription basis for a single class or for as many individual classes as the subscriber chooses upon payment of a subscription fee per Federal Supply Class. The subscriber will receive one copy each of all new or revised documents for a one-year period after the effective subscription date. Documents issued prior to the subscription date must be ordered individually from NPFC.

#### 4.2 INFORMATION CENTERS AND LIBRARIES

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## ASTM INFORMATION CENTER

Dolores G. Collyer, Manager

AMERICAN SOCIETY FOR TESTING AND MATERIALS  
1916 Race Street  
Philadelphia, Pennsylvania 19103  
(215) 299-5475                      TELEX: 710-670-1037

Founded: 1898

**Type of  
Organization**

Nonprofit

**Types of  
Standards**

U.S. NONGOVERNMENT:  
All ASTM

**Medium**

Paper

**Related  
Standards  
Services**

Handle telephone and mail inquiries on standards

## ENGINEERING SOCIETIES LIBRARY

F.J. Bohan, Acting Director

345 East 47th Street  
New York, New York 10017  
(212) 705-7611                      FAX: (212) 486-1086

Founded: 1913

**Type of  
Organization**

Nonprofit

**Types of  
Standards**

U.S. NONGOVERNMENT:  
ANSI            American National Standards Institute  
ASHRAE        American Society of Heating, Refrigerating  
                 and Air Conditioning Engineers  
ASME           American Society of Mechanical Engineers  
AWS            American Welding Society  
EIA            Electronic Industries Association  
IEEE           Institute of Electrical and Electronics  
                 Engineers  
NFPA           National Fire Protection Association  
UL             Underwriters Laboratories

Partial files on many others.



INTERNATIONAL:

IEC International Electrotechnical Commission

FOREIGN NATIONAL:

British Standards Institution  
Canadian Standards Association  
Deutsches Institut fur Normung

Partial files on many others.

**Availability of  
Prior Editions**

Historic files are maintained of the following:  
ANSI, ASHRAE, ASME, ASTM, AWS, IEEE, and IEC.

**Medium**

Paper

**Indexing**

Indexes are those supplied by issuing bodies.

**Related  
Standards  
Services**

Provide photocopies of out-of-print standards

**LINDA HALL LIBRARY**

Wilma L. Hartman, Librarian for Public Services

5109 Cherry Street  
Kansas City, Missouri 64110  
(816) 363-4600

Founded: 1946

**Type of  
Organization**

Nonprofit

**Number of  
Standards**

100,000 Standards Total

**Types of  
Standards**

U.S. GOVERNMENT:  
All military and federal specifications, standards, and  
related documents.

U.S. NONGOVERNMENT:  
Two hundred professional, commercial or industrial  
agencies issuing standardization documents.

**Availability of  
Prior Editions**

American Society for Testing and Materials: Annual  
book of ASTM standards.  
National Fire Protection Association: National fire  
codes.  
American Society of Mechanical Engineers: ASME boiler  
and pressure vessel code.

**Medium**

Paper

**Related  
Standards  
Services**

Photocopy service

**MORGAN TECHNICAL LIBRARY**

Arlene Barnbart, Librarian

NATIONAL FIRE PROTECTION ASSOCIATION  
1 Batterymarch Park  
Quincy, Massachusetts 02269-9101  
(617) 984-7445 FAX: (617) 471-5231

Founded: 1945

**Type of  
Organization**

Nonprofit

**Types of  
Standards**

U.S. NONGOVERNMENT:  
NFPA National Fire Protection Association  
UL Underwriters Laboratories  
ICBO International Conference of Building Officials  
BOCA Building Officials and Code Administration  
International  
CABO Council of American Building Officials  
Model Building & Fire Codes

Partial files on approximately 30 other organizations,  
primarily those standards relating to fire safety.

FOREIGN NATIONAL:  
Partial files on Canadian standards organizations,  
primarily those standards relating to fire safety.

INTERNATIONAL:  
Partial file of standards relating to fire safety from:  
ISO and IEC

**Availability of  
Prior Editions**

Historic files are maintained for the National Fire  
Protection Association, 1896-current.

**Medium**

Paper for current files.  
Microfiche for Historic Files.

**Indexing**

Indexes are those supplied by issuing body.

**Related  
Standards  
Services**

Provide photocopies of out-of-print National Fire  
Protection Association Standards. Authentication  
services available.

NATIONAL CENTER FOR STANDARDS AND CERTIFICATION INFORMATION (NCSCI)

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY  
A629 Administration Building  
Gaithersburg, Maryland 20899  
(301) 975-4040 TELEEX: TRT 197674 NIST UT  
FAX: (301) 975-2128

Founded: 1965

Type of  
Organization

Government

Types of  
Standards in  
Collection

UNITED STATES:  
industry (voluntary)  
federal agency (voluntary and regulations)  
federal purchasing

FOREIGN:  
national  
international  
regional

Medium

Paper, microfilm cartridges and microfiche.

Related  
Standards  
Services

Standards can be viewed from the collection which is in paper, microfilm cartridges, and microfiche. Product subject listings are provided in response to inquiries, but copies of standards are not distributed. NCSCI responds to the needs of government, industry, and the general public for information on domestic and foreign standards, regulations, certification, and other standards-related activities and foreign requests for information on existing U.S. standards and certification information. The objectives are accomplished by: maintaining a microform and hard copy collection of engineering standards and specifications, regulations, certification rules, directories, reference books and special publications; responding to inquiries on the existence, source, and availability of standards and related documents; developing and publishing directories of standards, certification, testing and related information; to the degree possible, responding to trade-related queries regarding regulations and other requirements of foreign countries for the export of U.S. manufactured products.

The NCSCI Reference Collection is open to visitors Monday through Friday from 8:30 a.m. to 5:00 p.m.



## NUCLEAR PERFORMANCE ASSURANCE PROJECT OFFICE

U.S. Department of Energy  
P.O. Box 2009, Building 9204-1, M/S 8050  
Oak Ridge, Tennessee 37831-8050  
(615) 574-8910

### **Type of Organization**

Government

### **Types of Standards**

U.S. GOVERNMENT:  
211 Nuclear Energy (NE) standards are published under the auspices of the U.S. Department of Energy. The standards are available to United States Government contractors and selected private industries engaged in the nuclear energy field.

### **Availability of Prior Editions**

Inactive and discontinued standards are available for information only on a "need" basis. Distribution of prior issues is based on the same policy.

### **Medium**

Paper and microfiche

### **Indexing**

A "Nuclear Standards Master Index" listing standard number, title, facility, cognizant engineer, and status is published semiannually (January and June).

### **Related Standards Services**

1. "Nuclear Energy Standards KWOC Index" published annually.
2. "Requirements for Preparation and Management of DOE Nuclear Energy Program Standards Manual" updated as needed.

### **Foreign Sales Offices for U.S. Standards**

Nuclear Energy (NE) standards are not available for foreign distribution. An exception may be made for those foreign countries which have an exchange agreement with the U.S. Department of Energy.

#### 4.3 UNION LISTS OF STANDARDS

The Engineering Division of the Special Libraries Association is attempting to identify various collections of standards within geographic regions and to compile a "union list" of that information. Although some of these union lists are out of print, the participating libraries will have copies.

##### **California**

1981 Union List of Specifications and Standards in California, Hawaii, Oregon, and Washington Libraries. Prepared by California Library Authority for Systems and Services and Information on Demand.

##### **Illinois**

1986 Union List of Standards, Metropolitan Chicago Science and Technology Libraries.

##### **Minnesota**

1979 Twin Cities Standards Cooperative Card Index at the James J. Hill Reference Library, St. Paul, MN.

##### **New York**

1980 Location Guide to Engineering Standards and Related Materials in Rochester Area Libraries. Rochester Regional Research Library Council.

##### **New York**

1984 A Directory of Selected Technical Information Holdings in Member Libraries. Compiled by Carol Kizis for Documents Committee, Subcommittee on Technical Information Forms of Western New York Library Resources Council. Fifty-three institutions.

##### **Tennessee**

1982 Standards, Specifications and Codes Available in Tennessee - A Union List. Nashville, TN.

##### **Texas**

1978 Union List of Standards, Specifications, and Codes in Selected Texas Libraries. Texas Chapter, Special Libraries Association.

##### **United States**

Union List of Technical Publications. American Society for Engineering Education, #11 Dupont Circle, Suite 200, Washington, DC 20036, Telephone (202) 293-7080.

##### **Wisconsin**

1982 A Union List of Standards Held in Wisconsin. Produced by Library Council of Metropolitan Milwaukee, 814 West Wisconsin Avenue, Milwaukee, WI. 53233, Telephone (414) 271-8470. Forty-one libraries included.

## 5. SUBJECT INDEX AND RELATED LISTINGS

### 5.1 SUBJECT INDEX (ORGANIZATIONS BY MAJOR SUBJECTS)

Government and nongovernment organizations are listed in alphabetic order in their respective sections, and are listed here within forty-two subject categories. These categories were selected after reviewing the keywords of all entries.

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## ACOUSTICS AND NOISE CONTROL

Acoustical Society of America  
Air Movement and Control Association  
American Helicopter Society  
American Institute of Physics  
American Speech-Language and Hearing Association  
Association of Wall and Ceiling Industries - International  
Compressed Air and Gas Institute  
Department of Veterans Affairs  
ETL Testing Laboratories  
Federal Aviation Administration (DOT)  
Home Ventilating Institute  
International Tape/Disc Association  
Lead Industries Association  
National Environmental Balancing Bureau  
Outdoor Power Equipment Institute  
Snowmobile Safety and Certification Committee

## AEROSPACE AND AVIATION

Aeronautical Radio, Incorporated  
Aerospace Industries Association of America  
Air Transport Association of America  
Aircraft Locknut Manufacturers Association  
Aircraft Owners and Pilots Association  
American Helicopter Society  
American Institute of Aeronautics and Astronautics  
Department of Defense  
Federal Aviation Administration (DOT)  
Federal Coordinator for Metrology (Commerce)  
Flight Safety Foundation  
General Aviation Manufacturers Association  
Helicopter Association International  
Radio Technical Commission for Aeronautics  
Society of Automotive Engineers  
Systems Engineering and Technology (NASA)

## AGRICULTURE

Agricultural Marketing Service (USDA)  
American Association of Cereal Chemists  
American Association of Nurserymen  
American Feed Manufacturers Association  
American Society of Agricultural Engineers  
American Sod Producers Association  
American Soybean Association  
Animal Health International  
Association of American Feed Control Officials  
Association of American Plant Food Control Officials  
Association of Official Analytical Chemists

Association of Official Seed Analysts  
Association of Official Seed Certifying Agencies  
Blue Anchor  
Center for Agricultural Machinery  
Corn Refiners Association  
DFA of California  
Diamond Walnut Growers  
Equipment Manufacturers Institute  
Federal Grain Inspection Service (USDA)  
Fertilizer Institute  
Foreign Agricultural Service (USDA)  
Grain Elevator and Processing Society  
Irrigation Association  
National Bark and Soil Producers Association  
National Clay Pot Manufacturers Association  
National Coffee Association of the U.S.A.  
National Cotton Council of America  
National Cottonseed Products Association  
National Fertilizer Solutions Association  
National Institute of Oilseed Products  
National Oilseed Processors Association  
Outdoor Power Equipment Institute  
Rice Millers Association  
Packers and Stockyards Administration (USDA)

#### AIR-CONDITIONING AND REFRIGERATION

(Also see Heating, Ventilating and Air Handling)

Air Conditioning Contractors of America  
Air-Conditioning and Refrigeration Institute  
American Insurance Association  
American Society of Heating, Refrigerating and Air-Conditioning Engineers  
Automotive Refrigeration Products Institute  
Commercial Refrigeration Manufacturers Association  
Department of Veterans Affairs  
ETL Testing Laboratories  
International Institute of Ammonia Refrigeration  
International Mobile Air Conditioning Association  
Mechanical Contractors Association of America  
National Association of Plumbing-Heating-Cooling Contractors  
Sheet Metal, and Air Conditioning Contractors National Association  
Solar Rating and Certification Corporation

#### BUILDING

(Also see Air-Conditioning; Concrete; Heating; Plumbing; and Wood)

American Gas Association  
American Hardwood Association  
American Lighting Institute  
American Institute of Architects  
American Institute of Steel Construction

American Laminators Association  
American Pipe Fittings Association  
American Society of Civil Engineers  
American Society of Mechanical Engineers  
American Society of Plumbing Engineers  
American Architectural Manufacturers Association  
Asphalt Roofing Manufacturers Association  
Associated General Contractors of America  
Associated Locksmiths of America  
Association of Wall and Ceiling Industries - International  
Brick Institute of America  
Builders Hardware Manufacturers Association  
Building Owners and Managers Association International  
Cellulose Industry Standards Enforcement Programs  
Ceilings and Interior Systems Contractors  
Concrete Reinforcing Steel Institute  
Council of American Building Officials  
Cultured Marble Institute  
Decorative Laminate Products Association  
Department of Defense  
Door and Hardware Institute  
Door Operator and Remote Controls Manufacturers Association  
Flat Glass Marketing Association  
Gas Appliance Manufacturers Association  
Glass Tempering Association  
Home Automation Association  
Housing and Urban Development, Department of  
Illuminating Engineering Society of Northern America  
Insulated Steel Door Systems Institute  
International Association of Electrical Inspectors  
International Association of Plumbing and Mechanical Officials  
International Conference of Building Officials  
Lightning Protection Institute  
Manufactured Housing Institute  
Maple Flooring Manufacturers Association  
Marble Institute of America  
Metal Building Manufacturers Association  
Mineral Insulation Manufacturers Association  
National Association of Architectural Metal Manufacturers  
National Association of Garage Door Manufacturers  
National Association of Industrial and Office Parks  
National Burglar and Fire Alarm Association  
National Certification Program  
National Concrete Masonry Association  
National Conference of States on Building Codes and Standards  
National Easter Seal Society  
National Electrical Contractors Association  
National Elevator Industry  
National Environmental Balancing Bureau  
National Forest Products Association  
National Institute of Building Sciences  
National Lime Association  
National Roof Deck Contractors Association  
National Roofing Contractors Association



National School Supply and Equipment Association  
Plumbing and Drainage Institute  
Public Buildings Services (GSA)  
Resilient Floor Covering Institute  
Safety Glazing Certification Council  
Screen Manufacturers Association  
Sealed Insulating Glass Manufacturers Association  
Southern Building Code Congress International  
Steel Deck Institute  
Steel Door Institute  
Steel Joist Institute  
Steel Window Institute  
Thermal Insulation Manufacturers Association  
Tile Council of America  
United Lightning Protection Association  
Vinyl Siding Institute  
Vinyl Window and Door Institute  
Water Systems Council  
Wood and Synthetic Flooring Institute

**BUSINESS, FINANCE, AND INSURANCE**

Alliance of American Insurers  
American Bankers Association  
American Insurance Association  
American National Metric Council  
American National Standards Institute  
American Statistical Association  
Association of American Railroads  
Bureau of the Mint (Treasury)  
Electronic Data Interchange Association  
Executive Office of the President  
Factory Mutual Research Corporation  
Federal Trade Commission  
Financial Accounting Standards Foundation  
Foreign Agricultural Service (USDA)  
Health Care Financing Administration (DHHS)  
Internal Revenue Service (Treasury)  
International Trade Administration (Commerce)  
National Association of Purchasing Management  
National Automobile Theft Bureau  
National Cargo Bureau  
National Institute of Standards and Technology (Commerce)  
National Retail Merchants Association  
Occupational Safety and Health Administration (DOL)  
Project Management Institute  
U.S. Council for International Business  
U.S. Customs Service (Treasury)  
U.S. Patent and Trademark Office (Commerce)  
U.S. Trade Representative, Executive Office of the President

## COMMUNICATIONS

Advanced Television Systems Committee  
Aeronautical Radio, Incorporated  
Air Transport Association of America  
American Association of Advertising Agencies  
American Design Drafting Association  
American National Standards Institute  
Association of American Publishers  
Association of American Railroads  
Automatic Meter Reading Association  
Book Industry Study Group  
Book Manufacturers Institute  
Computer and Business Equipment Manufacturers Association  
Corporation for Open Systems International  
Department of Defense  
Electronic Media Rating Council  
Exchange Carriers Standards Association  
Federal Communications Commission  
Federal Coordinator for Metrology (Commerce)  
Graphic Communications Association  
Gravure Association of America  
Home Automation Association  
Information Resources Management Standards (GSA)  
Institute of Electrical and Electronics Engineers  
Insulated Cable Engineers Association  
International Communications Industries Association  
International Municipal Signal Association  
International Tape/Disc Association  
Laser Institute of America  
Library Binding Institute  
Marketing Department (USPS)  
National Association of Broadcasters  
National Cable Television Association  
National Federation of Abstracting and Information Services  
National Information Standards Organization  
National Institute of Standards and Technology (Commerce)  
National Marine Electronics Association  
National Printing Ink Research Institute  
National Telecommunications and Information Administration (Commerce)  
Printing Industries of America  
Radio Technical Commission for Aeronautics  
Recording Industry Association of America  
Rural Electrification Administration (USDA)  
Semiconductor Equipment and Materials Institute  
Society for Technical Communication  
Society of Motion Picture and Television Engineers  
Technology Resource Department (USPS)  
Traffic Audit Bureau  
United States Telephone Association  
U.S. National Committee for the CCITT (State)

## CONCRETE, MASONRY, AND CERAMIC PRODUCTS

American Concrete Institute  
American Concrete Pavement Association  
American Concrete Pipe Association  
American Concrete Pressure Pipe Association  
American Society for Testing and Materials  
Architectural Precast Association  
Brick Institute of America  
Concrete Plant Manufacturers Bureau  
Concrete Reinforcing Steel Institute  
Control Systems Manufacturers Division  
Expanded Shale, Clay and Slate Institute  
International Masonry Institute  
Masonry and Concrete Saw Manufacturers Institute  
Materials and Methods Standards Association  
Mo-Sai Institute  
National Building Granite Quarries Association  
National Concrete Masonry Association  
National Terrazzo and Mosaic Association  
Plant Mixer Manufacturers Division  
Portland Cement Association  
Post-Tensioning Institute  
Precast/Prestressed Concrete Institute  
Stucco Manufacturers Association  
Technical Ceramics Manufacturers Association  
Tile Council of America  
Truck Mixer Manufacturers Bureau  
Wire Reinforcement Institute

## CONSTRUCTION

(See also Concrete)

American Association of State Highway and Transportation Officials  
American Institute of Steel Construction  
American Institute of Timber Construction  
American Iron and Steel Institute  
American Lumber Standards Committee  
American Pipe Fittings Association  
American Plywood Association  
American Public Works Association  
American Railway Engineering Association  
American Road and Transportation Builders Association  
American Society of Civil Engineers  
American Society of Sanitary Engineering  
American Water Works Association  
American Wood-Preservers Association  
American Wood-Preservers Bureau  
Asphalt Institute  
Asphalt Emulsion Manufacturers Association  
Asphalt Roofing Manufacturers Association  
Associated Air Balance Council  
Associated General Contractors of America



Association of Asbestos Cement Pipe Producers  
 Association of Drilled Shaft Contractors  
 Association of Engineering Geologists  
 Association of Physical Plant Administrators of Universities and  
 Colleges  
 Building Officials and Code Administrators International  
 Cast Iron Soil Pipe Institute  
 Chain Link Fence Manufacturers Institute  
 Compressed Air and Gas Institute  
 Concrete Plant Manufacturers Bureau  
 Construction Industry Manufacturers Association  
 Construction Specifications Institute  
 Contractors Pump Bureau  
 Control Systems Manufacturers Division  
 Deep Foundations Institute  
 Department of Defense  
 Equipment Manufacturers Institute  
 Federal Highway Administration (DOT)  
 Gypsum Association  
 Hardwood Plywood Manufacturers Association  
 International Bridge, Tunnel and Turnpike Association  
 International Conference of Building Officials  
 International Fence Industry Association  
 Laborers International Union of North America  
 Materials Transportation Bureau (DOT)  
 Mechanical Contractors Association of America  
 Mo-Sai Institute  
 National Association of County Engineers  
 National Association of Industrial and Office Parks  
 National Association of Pipe Coating Applicators  
 National Clay Pipe Institute  
 National Concrete Masonry Association  
 National Corrugated Steel Pipe Association  
 National Electrical Contractors Association  
 National Forest Products Association  
 National Lime Association  
 National Slag Association  
 National Stone Association  
 National Terrazzo and Mosaic Association  
 Occupational Safety and Health Administration (DOL)  
 Pipe Line Contractors Association  
 Plant Mixer Manufacturers Division (Concrete Plant Manufacturers Bureau)  
 Plastics Pipe Institute  
 Portland Cement Association  
 Post-Tensioning Institute  
 Powder Actuated Tool Manufacturers Institute  
 Precast/Prestressed Concrete Institute  
 Scaffolding, Shoring and Forming Institute  
 Southern Building Code Congress International  
 Steel Tank Institute  
 Test Boring Association  
 Water Pollution Control Federation

## CONSUMER PRODUCTS

American Fastener and Closure Association  
American Furniture Manufacturers Association  
American Gas Association  
American Home Economics Association  
American Lighting Institute  
American Ladder Institute  
American National Standards Institute  
American Society for Testing and Materials  
Association of Bedding and Furniture Law Officials  
Association of Home Appliance Manufacturers  
Automatic Meter Reading Association  
Building Energy Research and Development (DOE)  
Bureau of Competition and Consumer Protection (FTC)  
Carpet and Rug Institute  
Chemical Specialties Manufacturers Association  
Color Association of the United States  
Consumer Affairs (Commerce)  
Consumer Federation of America  
Consumer Product Safety Commission  
Cookware Manufacturers Association  
Cosmetic, Toiletry and Fragrance Association  
Crayon, Water Color and Craft Institute  
Department of Defense  
Department of Veterans Affairs  
Electronic Industries Association  
ETL Testing Laboratories  
Food and Drug Administration (DHHS)  
Gas Appliance Manufacturers Association  
Gas Processors Association  
Gemological Institute of America  
Hand Tools Institute  
Home Automation Association  
International Fabricare Institute  
International Sleep Products Association  
Jewelers Vigilance Committee  
Juvenile Products Manufacturers Association  
Manufacturing Jewelers and Silversmiths of America  
Metal Ladder Manufacturers Association  
National Association of Hosiery Manufacturers  
National Association of Jewelry Appraisers  
National Institute of Infant Services  
National Kerosene Heater Association  
National Retail Merchants Association  
National Safety Council  
National Spa and Pool Institute  
Outdoor Power Equipment Institute  
Program Management (Consumer Product Safety Commission)  
Sponge and Chamois Institute  
Tire and Rim Association  
Toy Manufacturers of America  
Tube Council of Northern America  
Underwriters Laboratories

United States Testing Company  
Vacuum Cleaner Manufacturers Association  
Water Quality Association

#### DATA AND INFORMATION PROCESSING

American Association of Petroleum Geologists  
American Design Drafting Association  
American Congress on Surveying and Mapping  
American Institute for Design and Drafting  
American National Standards Institute  
American Statistical Association  
Association for Computing Machinery  
Association for Information and Image Management  
Association of American Railroads  
Association of Records Managers and Administrators  
Automatic Meter Reading Association  
Book Industry Study Group  
Bureau of the Census (Commerce)  
Collection Services (Library of Congress)  
Computer and Business Equipment Manufacturers Association  
Computer Software and Services Industry Association  
Construction Specifications Institute  
Corporation for Open Systems International  
Data Processing Management Association  
Electronic Data Interchange Association  
Electronic Industries Association  
Energy Information Administration (DOE)  
Federal Coordinator for Meteorology (Commerce)  
Financial Accounting Standards Foundation  
Geological Survey (DOI)  
Graphic Communications Association  
Home Automation Association  
Information Resources Management Standards (GSA)  
Information Technology Service (Library of Congress)  
Institute of Electrical and Electronics Engineers  
Internal Revenue Service (Treasury)  
MUMPS Development Committee  
National Archives and Records Service (GSA)  
National Computer Graphics Association  
National Federation of Abstracting and Information Services  
National Institute of Standards and Technology (Commerce)  
National Technical Information Service (Commerce)  
National Telecommunications and Information Services (Commerce)  
National Wholesale Hardware Association  
Printing Industries of America  
Project Management Institute  
Research Services (Library of Congress)  
Society for Information Display  
SPARC International  
Special Libraries Association  
Technology Resource Department (USPS)  
U.S. Geological Survey (DOI)



U.S. Patent and Trademark Office (Commerce)  
U.S. National Committee for the CCITT (State)

### DEFENSE

Aerospace Industries Association of America  
American Defense Preparedness Association  
American Helicopter Society  
American National Metric Council  
American National Standards Institute  
American Society for Testing and Materials  
Department of Defense  
Electronic Industries Association  
Helicopter Association International  
Institute of Makers of Explosives  
Institute of Nuclear Materials Management  
Society of Automotive Engineers  
Sporting Arms and Ammunitions Manufacturers Institute

### EDUCATION

Accrediting Bureau of Health Education Schools  
Advisory Commission on Textbook Specifications  
American Library Association  
American National Metric Council  
American Optometric Association  
American Podiatric Medical Association  
American Psychiatric Association  
American Psychoanalytic Association  
American Public Health Association  
American Speech-Language and Hearing Association  
Association for Education of the Visually Handicapped  
Association of Physical Plant Administrators of Universities and Colleges  
Book Manufacturers Institute  
Crayon, Water Color and Craft Institute  
Hair International  
National Association of State Textbook Administrators  
National League for Nursing  
National School Supply and Equipment Association  
National Standards Educators Association  
Special Libraries Association  
U.S. Metric Association

### ELECTRICAL AND ELECTRONIC EQUIPMENT

Aeronautical Radio, Incorporated  
American Lighting Institute  
American Society for Testing and Materials  
Association of Edison Illuminating Companies  
Association of Iron and Steel Engineers

Battery Council International  
Certified Ballast Manufacturers  
Edison Electric Institute  
Electrical Apparatus Service Association  
Electrical Generating Systems Association  
Electronic Industries Association  
ETL Testing Laboratories  
Factory Mutual Research Corporation  
Home Automation Association  
Institute for Interconnecting and Packaging Electronic Circuits  
Institute of Electrical and Electronics Engineers  
Insulated Cable Engineers Association  
International Brotherhood of Electrical Workers  
International Electrical Testing Association  
International Municipal Signal Association  
Lightning Protection Association  
Magnetic Materials Producers Association  
National Association of Relay Manufacturers  
National Electrical Contractors Association  
National Electrical Manufacturers Association  
National Marine Electronic Association  
Occupational Safety and Health Administration (DOL)  
Radio Technical Commission for Aeronautics  
Radio Technical Commission for Maritime Services  
Rural Electrification Administration (USDA)  
Semiconductor Equipment and Materials Institute  
Small Motor Manufacturing Association  
Southwest Research Institute  
Underwriters Laboratories  
United Lightning Protection Association  
Variable Resistive Components Institute

## ENERGY

American Association of Petroleum Geologists  
American Gas Association  
American Nuclear Society  
American Society of Heating, Refrigerating and Air-Conditioning Engineers  
American Society of Mechanical Engineers  
Association of Edison Illuminating Companies  
Automatic Meter Reading Association  
Cellulose Industry Standards Enforcement Program  
Defense Programs (DOE)  
Edison Electric Institute  
Electrical Generating Systems Association  
Energy Information Administration  
Environment, Safety and Health (DOE)  
Gas Appliance Manufacturers Association  
Gas Processors Association  
Health Physics Society  
Heat Exchange Institute  
Home Automation Association

Institute of Electrical and Electronics Engineers  
Institute of Nuclear Materials Management  
International District Heating Association  
Mine Safety and Health Administration (DOL)  
Mineral Insulation Manufacturers  
Minerals Management Service (DOI)  
National Conference of States on Building Codes and Standards  
National Kerosene Heater Association  
National Propane Gas Association  
Nuclear Regulatory Commission  
Rural Electrification Administration (USDA)  
Solar Rating and Certification Corporation  
Thermal Insulation Manufacturers Association

### ENVIRONMENT

Acoustical Society of America  
Air and Waste Management Association  
American Industrial Hygiene Association  
American Society for Testing and Materials  
American Society of Heating, Refrigerating and Air-Conditioning Engineers  
Battery Council International  
Defense Programs (DOE)  
Environment, Safety and Health (DOE)  
Environmental Protection Agency  
Federal Aviation Administration (DOT)  
Federal Highway Administration (DOT)  
Home Automation Association  
Industrial Gas Cleaning Institute  
Institute of Environmental Sciences  
Institute of Nuclear Materials Management  
National Council on Radiation Protection and Measurements  
National Environmental Health Association  
National Oceanic and Atmospheric Administration (Commerce)  
National Sanitation Foundation  
Nuclear Regulatory Commission  
Occupational Health (NASA)  
Occupational Safety and Health Administration (DOL)  
Water Pollution Control Federation

### FACILITIES MANAGEMENT

American Hospital Association  
Association of Physical Plant Administrators of Universities and Colleges  
Building Owners and Managers Association International  
Health Care Financing Administration (DHHS)  
International City Management Association  
National Association of County Engineers  
National Association of Industrial and Office Parks



## FOOD AND BEVERAGES

Agricultural Marketing Service (USDA)  
American Association of Cereal Chemists  
American Dairy Products Institute  
American Oil Chemists Society  
American Society of Brewing Chemists  
American Society for Enology and Viticulture  
American Spice Trade Association  
Association of Official Analytical Chemists  
Blue Anchor  
Bureau of Alcohol, Tobacco, and Firearms (Treasury)  
Cookware Manufacturers Association  
Corn Refiners Association  
Dairy and Food Industries Supply Association  
Department of Defense  
DFA of California  
Diamond Walnut Growers  
Distilled Spirits Council of the United States  
Federal Grain Inspection Service (USDA)  
Food and Drug Administration (DHHS)  
Food Processing and Supplies Association  
Food Safety and Inspection Service (USDA)  
Foreign Agricultural Service (USDA)  
International Association of Milk, Food and Environmental Sanitarians  
National Automatic Merchandising Association  
National Coffee Association of the U.S.A.  
National Cottonseed Products Association  
National Fisheries Institute  
National Food Processors Association  
National Institute of Oilseed Products  
National Marine Fisheries Service (Commerce)  
National Soft Drink Association  
Packers and Stockyards Administration (USDA)  
Rice Millers Association  
United States Testing Company  
Veterans Administration

## GENERAL

American Design Drafting Association  
American National Metric Council  
American National Standards Institute  
American Society for Testing and Materials  
Bureaus of Competition and Consumer Protection (FTC)  
Color Association of the United States  
Consumer Product Safety Commission  
Department of Defense  
Executive Office of the President  
General Services Administration  
International Coalition for Procurement Standards  
International Trade Administration (Commerce)  
National Association of Hospital Purchasing Materials Management

National Institute of Standards and Technology (Commerce)  
National Standards Educators Association  
Office of Procurement (GSA)  
Program Management (Consumer Product Safety Commission)  
Standards Engineering Society  
Underwriters Laboratory  
United States Testing Company  
U.S. Metric Association  
U.S. Patent and Trademark Office (Commerce)  
U.S. Trade Representative, Executive Office of the President

#### GOVERNMENT OFFICIALS

American Association of Motor Vehicle Administrators  
American Conference of Governmental Industrial Hygienists  
Association of American Feed Control Officials  
Association of American Plant Feed Control Officials  
Association of Bedding and Furniture Law Officials  
Association of Official Analytical Chemists  
Association of Official Seed Analysts  
Building Officials and Code Administrators International  
Council of American Building Officials  
International Association of Electrical Inspectors  
International Association of Plumbing and Mechanical Officials  
International City Management Association  
International Coalition for Procurement Standards  
International Conference of Building Officials  
National Association of County Engineers  
National Association of State Textbook Administrators  
National Association of State Purchasing Officials  
National Board of Boiler and Pressure Vessel Inspectors  
National Civic League Inc.  
U.S. Patent and Trademark Office (Commerce)

#### HEATING, VENTILATING, AND AIR HANDLING

Air Conditioning Contractors of America  
Air-Conditioning and Refrigeration Institute  
Air Distribution Institute  
Air Movement and Control Association  
American Boiler Manufacturers Association  
American Insurance Association  
American Society of Heating, Refrigerating and Air-Conditioning Engineers  
Associated Air Balance Council  
Home Ventilating Institute  
Heat Exchange Institute  
Hydronics Institute  
International District Heating Association  
Mechanical Contractors Association of America  
National Association of Plumbing-Heating-Cooling Contractors  
National Environmental Balancing Bureau

National Kerosene Heater Association  
Sheet Metal, and Air Conditioning Contractors National Association  
Solar Rating and Certification Corporation  
Underwriters Laboratories  
Wood Heating Alliance

### **INDUSTRIAL EQUIPMENT**

American Boiler Manufacturers Association  
American Brush Manufacturers Association  
American Gas Association  
American Ladder Institute  
American Society for Testing and Materials  
American Society of Mechanical Engineers  
American Vacuum Society  
Association of Iron and Steel Engineers  
Automatic Identification Manufacturers Association  
Caster and Floor Truck Manufacturers Association  
Cleaning Equipment Manufacturers Association  
Compressed Air and Gas Institute  
Contractors Pump Bureau  
Conveyor Equipment Manufacturers Association  
Cooling Tower Institute  
Cordage Institute  
Department of Defense  
Ductile Iron Pipe Research Association  
Electronic Industries Association  
Expansion Joint Manufacturers Association  
Factory Mutual Research Corporation  
Equipment Manufacturers Institute  
Federation of Automated Coding Technologies  
Fluid Controls Institute  
Gas Appliance Manufacturers Association  
Hand Tools Institute  
Heat Exchange Institute  
Hydraulic Institute  
Hydronics Institute  
Industrial Gas Cleaning Institute  
Industrial Truck Association  
Instrument Society of America  
International Cargo Gear Bureau  
International Staple, Nail and Tool Association  
Laser Institute of America  
Manufacturers Standardization Society of the Valve and Fittings Industry  
Masonry and Concrete Saw Manufacturers Institute  
Material Handling Institute  
Mechanical Power Transmission Association  
Metal Ladder Manufacturers Association  
Mine Safety and Health Administration (DOL)  
Monorail Manufacturers Association  
National Association of Chain Manufacturers  
National Association of Name Plate Manufacturers  
National Board of Boiler and Pressure Vessel Inspectors



National Fluid Power Association  
National Solid Wastes Management Association  
Optical Product Code Council  
Portable Power Equipment Manufacturers Association  
Pipe Fabrication Institute  
Rack Manufacturers Institute  
Robotic Industries Association  
Rubber Manufacturers Association  
Scaffolding, Shoring and Forming Institute  
Small Motor Manufacturing Association  
Steel Plate Fabricators Association  
Steel Tank Institute  
Sump and Sewage Pump Manufacturers Association  
Tubular Exchange Manufacturers Association  
Ultrasonic Industry Association  
Underwriters Laboratories  
Valve Manufacturers Association  
Water Quality Association

#### INSTRUMENTS AND LABORATORY EQUIPMENT

American Crystallographic Association  
American Society for Medical Technology  
American Society for Testing and Materials  
American Watchmakers Institute  
Bureau of Alcohol, Tobacco and Firearms (Treasury)  
Equipment and Tool Institute  
Federal Coordinator for Metrology (Commerce)  
Fluid Controls Institute  
Institute of Electrical and Electronics Engineers  
Instrument Society of America  
Inter-Society Color Council  
Joint Neurosurgical Committee on Devices and Drugs  
Laser Institute of America  
National Institute of Standards and Technology (Commerce)  
National Committee for Clinical Laboratory Standards  
National Oceanic and Atmospheric Administration (Commerce)  
Optical Society of America  
Scale Manufacturers Association

#### MACHINERY

American Chain Association  
American Gear Manufacturers Association  
American Society for Testing and Materials  
American Society of Agricultural Engineers  
American Society of Mechanical Engineers  
American Textile Machinery Association  
Anti-Friction Bearing Manufacturers Association  
Baking Industry Sanitation Standards Committee  
Center for Agricultural Machinery  
Compressed Air and Gas Institute

Construction Industry Manufacturers Association  
Conveyor Equipment Manufacturers Association  
Electrical Apparatus Service Association  
Forging Industry Association  
Friction Materials Standards Institute  
Grinding Wheel Institute  
Mechanical Power Transmission Association  
National Electrical Manufacturers Association  
National Fluid Power Association  
NMTBA - The Association for Manufacturing Technology  
Packaging Machinery Manufacturers Institute  
Pulp and Paper Machinery Manufacturers Association  
Robotic Industries Association  
Society of the Plastics Industry  
Wood Machinery Manufacturers of America

### **MANUFACTURING**

Abrasive Engineering Society  
Abrasive Grain Association  
Adhesives Manufacturers Association  
Aerospace Industries Association of America  
Aircraft Locknut Manufacturers Association  
American National Metric Council  
American National Standards Institute  
American Society of Electroplated Plastics  
American Welding Society  
Automated Imaging Association  
Automatic Identification Manufacturers Association  
Cemented Carbide Producers Association  
Certified Automotive Parts Association  
Coated Abrasives Manufacturers Institute  
Compressed Air and Gas Institute  
Computer Aided Manufacturing International  
Defense Industrial Supply Center  
Diamond Wheel Manufacturers Institute  
Federation of Automated Coding Technologies  
Hack and Band Saw Manufacturers Association of America  
Industrial Diamond Association of America  
Industrial Fasteners Institute  
Industrial Perforators Association  
Industrial Safety Equipment Association  
Institute of Industrial Engineers  
International Staple, Nail and Tool Association  
Laser Institute of America  
Marking Device Association  
Metal Treating Institute  
MTM Association for Standards and Research  
National Association of Punch Manufacturers  
National Certified Pipe Welding Bureau  
National Fastener Distributors Association  
NMTBA - The Association for Manufacturing Technology  
North American Die Casting Association

Occupational Safety and Health Administration (DOL)  
Optical Product Code Council  
Photo Chemical Machining Institute  
Resistance Welder Manufacturers Association  
Robotic Industries Association  
Semiconductor Equipment and Materials Institute  
Standards Committee for Hi-Lok and Hi-Tigue Products  
Steel Plate Fabricators Association  
Tubular Rivet and Machine Institute  
United States Cutting Tool Institute

#### **MATERIALS AND FINISHES**

(Also see Concrete, Textiles, and Wood)

Abrasive Grain Association  
Aluminum Association  
American Chemical Society  
American Concrete Pavement Association  
American Electroplaters Society  
American Fiber Manufacturers Association  
American Foundrymen's Society  
American Hardboard Association  
American Galvanizers Association  
American Institute of Chemical Engineers  
American Iron and Steel Institute  
American Laminators Association  
American Leather Chemists Association  
American National Standards Institute  
American Petroleum Institute  
American Society for Testing and Materials  
American Society of Electroplated Plastics  
American Wire Producers Association  
Asbestos Information Association North America  
Asphalt Emulsion Manufacturers Association  
Asphalt Institute  
Brass and Bronze Ingot Institute  
Bureau of Alcohol, Tobacco and Firearms (Treasury)  
Cadmium Council  
Cellulose Industry Standards Enforcement Program  
Cemented Carbide Producers Association  
Chemical Fabrics and Film Association  
Chemical Manufacturers Association  
Chemical Specialties Manufacturers Association  
Chlorine Institute  
Compressed Gas Association  
Concrete Plant Manufacturers Bureau  
Control Systems Manufacturers Division  
Copper Development Association  
Cosmetic, Toiletry and Fragrance Association  
Cotton Warehouse Association of America  
Cultured Marble Institute  
Decorative Laminate Products Association  
Department of Defense



Entomological Society of America  
 Environmental Protection Agency  
 Expanded Shale, Clay and Slate Institute  
 Federal Highway Administration (DOT)  
 Felt Manufacturers Council of Northern Textile Association  
 Federation of Societies for Coating Technology  
 Flat Glass Marketing Association  
 Forging Industry Association  
 Friction Materials Standards Institute  
 Glass Tempering Association  
 Gold Institute  
 Gypsum Association  
 Indiana Limestone Institute of America  
 Industrial Diamond Association of America  
 Industrial Fabrics Association International  
 Institute of Makers of Explosives  
 Investment Casting Institute  
 Jewelers Vigilance Committee  
 Joint Neurosurgical Committee on Devices and Drugs  
 Lead Industries Association  
 Leather Industries of America  
 Magnetic Materials Producers Association  
 Manufacturing Jewelers and Silversmiths of America  
 Marble Institute of America  
 Metal Powder Industries Federation  
 Metal Treating Institute  
 Materials and Methods Standards Association  
 Mineral Insulation Manufacturers  
 National Association of Corrosion Engineers  
 National Building Granite Quarries Association  
 National Cotton Council  
 National Lime Association  
 National Lubricating Grease Institute  
 National Slag Association  
 National Stone Association  
 North American Die Casting Association  
 Perlite Institute  
 Polyurethane Manufacturers Association  
 Porcelain Enamel Institute  
 Refractories Institute  
 Rubber Manufacturers Association  
 Safety Glazing Certification Council  
 Salt Institute  
 Semiconductor Equipment and Materials Institute  
 Silver Institute  
 Society of the Plastics Industry  
 Sponge and Chamois Institute  
 Southwest Research Institute  
 Steel Bar Mills Association  
 Steel Founders Society of America  
 Steel Manufacturers Association  
 Steel Service Center Institute  
 Steel Structures Painting Council  
 Technical Ceramics Manufacturers Association

Technical Ceramics Manufacturers Association  
Thermal Insulation Manufacturers Association  
Tin Research Institute  
United States Hide, Skin and Leather Association  
United States Testing Company  
Wire Reinforcement Institute

#### MEDICAL AND HEALTH CARE

Accrediting Bureau of Health Education Schools  
American Academy of Pediatrics  
American Alliance for Health, Physical Education, Recreation and Dance  
American Association for Respiratory Care  
American Association of Neurological Surgeons  
American Association of Poison Control Centers  
American Association of Psychiatric Services for Children  
American College of Surgeons  
American Dental Association  
American Electroencephalographic Society  
American Heart Association  
American Hospital Association  
American Medical Association  
American National Standards Institute  
American Occupational Medical Association  
American Pharmaceutical Association  
American Podiatric Medical Association  
American Psychiatric Association  
American Psychoanalytic Association  
American Society for Artificial Internal Organs  
American Society for Medical Technology  
American Society of Anesthesiologists  
American Thoracic Society  
Animal Health International  
Asbestos Information Association North America  
Association for the Advancement of Medical Instrumentation  
College of American Pathologists  
Congress of Neurological Surgeons  
Defense Programs (DOE)  
Entomological Society of America  
Environment, Safety and Health (DOE)  
Food and Drug Administration (DHHS)  
Health Care Financing Administration (DHHS)  
Health Industry Manufacturers Association  
Helicopter Association International  
Joint Neurosurgical Committee on Devices and Drugs  
Mine Safety and Health Administration (DOL)  
National Association of Hospital Purchasing Materials Management  
Occupational Health Office (NASA)  
Pharmaceutical Manufacturers Association  
U.S. Pharmacopoeial Convention

## MEDICAL DEVICES, EQUIPMENT, AND INSTRUMENTS

American Association of Neurological Surgeons  
American College of Surgeons  
American Dental Association  
American Electroencephalographic Society  
American Heart Association  
American Society for Artificial Internal Organs  
American Society for Testing and Materials  
American Society of Anesthesiologists  
American Thoracic Society  
Association for the Advancement of Medical Instrumentation  
Biological Stain Commission  
Congress of Neurological Surgeons  
Department of Defense  
Department of Veterans Affairs  
Defense Programs (DOE)  
Dental Manufacturers of America  
Food and Drug Administration (DHHS)  
Health Industry Manufacturers Association  
Joint Neurosurgical Committee on Devices and Drugs  
Laser Institute of America  
National Committee for Clinical Laboratory Standards  
National Electrical Manufacturers Association  
Orthopedic Surgical Manufacturers Association  
Pharmaceutical Manufacturers Association  
Radiological Society of North America  
U.S. Pharmacopoeial Convention

## OFFICE PRODUCTS

American Society for Testing and Materials  
Association for Information and Image Management  
Association of Records Managers and Administrators  
Business and Institutional Furniture Manufacturers Association  
Human Factors Society  
Joint Commission on Printing (U.S. Congress)  
Marketing Department (USPS)  
Marking Device Association  
National Association of Name Plate Manufacturers  
National Office Products Association  
Special Libraries Association

## OPTICS, OPHTHALMIC PRODUCTS, AND EYE PROTECTION

American Institute of Physics  
American Optometric Association  
Automated Imaging Association  
National Association of Manufacturing Opticians  
National Society to Prevent Blindness  
Optical Laboratories Association  
Optical Society of America



## PACKAGING AND PAPER

Adhesives Manufacturers Association  
American Paper Institute  
Automatic Identification Manufacturers Association  
Can Manufacturers Institute  
Composite Can and Tube Institute  
Containerization and Intermodal Institute  
Defense Programs (DOE)  
Department of Defense  
Federation of Automated Coding Technologies  
Fibre Box Association  
Flexible Packaging Association  
Food Processing Machinery and Supplies Association  
Glass Packaging Institute  
Gravure Association of America  
Gummed Industries Association  
Joint Commission on Printing (U.S. Congress)  
Marketing Department (USPS)  
National Archives and Records Service (GSA)  
National Food Processors Association  
National Information Standards Organization  
National Safe Transit Association  
National Soft Drink Association  
National Wooden Pallet and Container Association  
Optical Product Code Council  
Packaging Machinery Manufacturers Institute  
Paperboard Packaging Council  
Pressure Sensitive Tape Council  
Printing Industries of America  
Pulp and Paper Machinery Manufacturers Association  
Steel Shipping Container Institute  
Technical Association of the Pulp and Paper Industry  
Tube Council of North America

## PHOTOGRAPHY

American National Standards Institute  
American Society of Cinematographers  
American Society for Photogrammetry and Remote Sensing  
Association for Information and Image Management  
National Archives and Records Service (GSA)  
National Association of Photographic Manufacturers  
Optical Society of America  
Photographic Society of America  
Society of Motion Picture and Television Engineers

## PLUMBING

American Insurance Association  
American Pipe Fittings Association  
American Society for Testing and Materials

American Society of Mechanical Engineers  
American Society of Plumbing Engineers  
American Society of Sanitary Engineering  
Building Officials and Code Administrators International  
Cast Iron Soil Pipe Institute  
Cultured Marble Institute  
Department of Veterans Affairs  
Ductile Iron Pipe Association  
International Association of Plumbing and Mechanical Officials  
International Conference of Building Officials  
Mechanical Contractors Association of America  
National Association of Plumbing-Heating-Cooling Contractors  
National Clay Pipe Institute  
National Sanitation Foundation  
National Spa and Pool Institute  
National Water Well Association  
Plastics Pipe Institute  
Plumbing and Drainage Institute  
Southern Building Code Congress International  
Sump and Sewage Pump Manufacturers Association  
Valve Manufacturers Association  
Water Quality Association  
Water Systems Council

#### **PUBLIC HEALTH**

Accrediting Bureau of Health Education Schools  
American Association of Bioanalysts  
American Association of Blood Banks  
American Conference of Governmental Industrial Hygienists  
American Industrial Hygiene Association  
American Occupational Medical Association  
American Optometric Association  
American Public Health Association  
American Society for Testing and Materials  
American Society of Sanitary Engineering  
American Thoracic Society  
American Water Works Association  
Animal Health International  
Center for Disease Control (DHHS)  
Entomological Society of America  
Food and Drug Administration (DHHS)  
Health Care Financing Administration (DHHS)  
Health Physics Society  
Human Factors Society  
Illuminating Engineering Society of North America  
International Association of Milk, Food and Environmental Sanitarians  
National Automatic Merchandising Association  
National Committee for Clinical Laboratory Standards  
National Easter Seal Society  
National Environmental Health Association  
National Institute of Infant Services  
National League for Nursing

National Pest Control Association  
National Sanitation Foundation  
National Society to Prevent Blindness  
National Solid Wastes Management Association  
National Water Well Association  
Portable Sanitation Association  
Textile Rental Services Association of America  
U.S. Geological Survey (DOI)

#### QUALITY ASSURANCE AND TESTING

Aerospace Industries Association of America  
Agricultural Marketing Service (USDA)  
American Association for Clinical Chemistry  
American Association for Laboratory Accreditation  
American Association of Bioanalysts  
American Association of Textile Chemists and Colorists  
American Chemical Society  
American Council of Independent Laboratories  
American Crystallographic Association  
American Dairy Products Institute  
American Hospital Association  
American Leather Chemists Association  
American National Standards Institute  
American Oil Chemists Society  
American Society for Medical Technology  
American Society for Nondestructive Testing  
American Society for Quality Control  
American Society for Testing and Materials  
American Society of Brewing Chemists  
American Society of Mechanical Engineers  
American Statistical Association  
Association of Official Analytical Chemists  
Association of Official Seed Analysts  
Automated Imaging Association  
Biological Stain Commission  
Bureau of Alcohol, Tobacco and Firearms (Treasury)  
College of American Pathologists  
Cosmetic, Toiletry and Fragrance Association  
ETL Testing Laboratories  
Defense Programs (DOE)  
Federal Grain Inspection Service (USDA)  
Food Safety and Inspection Service (USDA)  
Gemological Institute of America  
Institute of Electrical and Electronics Engineers  
Institute of Environmental Sciences  
International Electrical Testing Association  
Inter-Society Color Council  
Mine Safety and Health Administration (DOL)  
National Committee for Clinical Laboratory Standards  
National Conference of States on Building Codes and Standards  
National Fire Protection Association  
National Institute of Standards and Technology (Commerce)



National Marine Fisheries Service (Commerce)  
National Oceanic and Atmospheric Administration (Commerce)  
National Pest Control Association  
National Standards Educators Association  
Office of Procurement (GSA)  
Portland Cement Association  
Radio Technical Commission for Aeronautics  
Society for Experimental Mechanics  
Solar Rating and Certification Corporation  
Southwest Research Institute  
Underwriters Laboratories  
United States Customs Service (Treasury)  
United States Testing Company

#### **RECREATION AND SPORTS**

American Alliance for Health, Physical Education, Recreation and Dance  
American Boat and Yacht Council  
American Bowling Congress  
American Fishing Tackle Manufacturers Association  
American Society for Testing and Materials  
Archery Manufacturers Organization  
Billiard Council of America  
Color Association of the United States  
Eastern Bird Banding Association  
National Association of Rocketry  
National Federation of State High School Associations  
National Model Railroad Association  
National Operating Committee for Standards in Athletic Equipment  
National Rifle Association of America  
Recreation Vehicle Industry Association  
SEMA Foundation  
Snell Memorial Foundation  
Snowmobile Safety and Certification Committee  
Sporting Arms and Ammunition Manufacturers Institute  
Sports Car Club of America  
Trailer Hitch Manufacturers Association  
Underwriters Laboratories  
United Ski Industries Association  
United States Coast Guard (DOT)  
United States Golf Association  
U.S. Tennis Court and Track Builders Association

#### **SAFETY, FIRE PROTECTION, AND PUBLIC SAFETY**

Alliance of American Insurers  
American Association of Motor Vehicle Administrators  
American Automobile Association  
American Brush Manufacturers Association  
American Bureau of Shipping  
American Conference of Governmental Industrial Hygienists  
American Fiber Manufacturers Association

American Hospital Association  
American Hotel and Motel Association  
American Industrial Hygiene Association  
American Insurance Association  
American Ladder Institute  
American National Standards Institute  
American Nuclear Society  
American Society for Testing and Materials  
American Society of Civil Engineers  
American Society of Mechanical Engineers  
American Society of Safety Engineers  
American Textile Machinery Association  
American Welding Society  
Asbestos Information Association North America  
Associated Locksmiths of America  
Association for the Advancement of Medical Instrumentation  
Association of American Railroads  
Association of Home Appliance Manufacturers  
American Society of Safety Engineers  
Building Energy Research and Development (DOE)  
Building Officials and Code Administrators International  
Center for Disease Control (DHHS)  
Chlorine Institute  
Coated Abrasives Manufacturers Institute  
Compressed Air and Gas Institute  
Compressed Gas Association  
Consumer Product Safety Commission  
Distilled Spirits Council of the United States  
Environment, Safety and Health (DOE)  
Factory Mutual Research Corporation  
Federal Aviation Administration (DOT)  
Federal Highway Administration (DOT)  
Flight Safety Foundation  
Food and Drug Administration (DHHS)  
Grain Elevator and Processing Society  
Grinding Wheel Institute  
Helicopter Association International  
Housing and Urban Development, Department of  
Human Factors Society  
Industrial Safety Equipment Association  
Institute of Electrical and Electronics Engineers  
Institute of Makers of Explosives  
Institute of Nuclear Materials Management  
Institute of Transportation Engineers  
International Association of Electrical Inspectors  
International Association of Plumbing and Mechanical Officials  
International Conference of Building Officials  
International Electrical Testing Association  
International Municipal Signal Association  
International Society of Arboriculture  
Laborers International Union of North America  
Laser Institute of America  
Lightning Protection Institute  
Materials Transportation Bureau (DOT)

Mechanical Contractors Association of America  
Mine Safety and Health Administration (DOL)  
Minerals Management Service (DOI)  
National Arborist Association  
National Burglar and Fire Alarm Association  
National Conference of States on Building Codes and Standards  
National Cotton Council of America  
National Council on Radiation Protection and Measurements  
National Electrical Manufacturers Association  
National Elevator Industry  
National Federation of State High School Associations  
National Fertilizer Solutions Association  
National Fire Protection Association  
National Fire Sprinkler Association  
National Highway Traffic Safety Administration (DOT)  
National Institute of Standards and Technology (Commerce)  
National Kerosene Heater Association  
National Propane Gas Association  
National Rifle Association of America  
National Safety Council  
National Spa and Pool Institute  
Nuclear Regulatory Commission  
Occupational Safety and Health Administration (DOL)  
Painting and Decorating Contractors of America  
Portland Cement Association  
Powder Actuated Tool Manufacturers Institute  
Printing and Decorating Contractors of America  
Program Management (Consumer Product Safety Commission)  
Public Buildings Service (GSA)  
Robotic Industries Association  
Safety Glazing Certification Council  
Scaffolding, Shoring and Forming Institute  
Snell Memorial Foundation  
Snowmobile Safety and Certification Committee  
Society of Fire Protection Engineers  
Southern Building Code Congress International  
Sporting Arms and Ammunition Manufacturers Institute  
Toy Manufacturers of America  
Underwriters Laboratories  
United Lightning Protection Association  
United States Coast Guard (DOT)  
Veterans Administration  
Wood and Synthetic Flooring Institute  
Wood Machinery Manufacturers of America

#### **SANITATION**

American Association of Cereal Chemists  
American Dairy Products Institute  
American Public Health Association  
American Society of Plumbing Engineers  
American Society of Sanitary Engineering  
American Water Works Association



Baking Industry Sanitation Standards Committee  
Cast Iron Soil Pipe Institute  
Ductile Iron Pipe Association  
Environmental Protection Agency  
Housing and Urban Development, Department of  
International Association of Milk, Food and Environmental Sanitarians  
National Association of Plumbing-Heating-Cooling Contractors  
National Automatic Merchandising Association  
National Clay Pipe Institute  
National Environmental Health Association  
National Pest Control Association  
National Sanitation Foundation  
National Solid Wastes Management Association  
National Spa and Pool Institute  
Plumbing and Drainage Institute  
Portable Sanitation Association  
Textile Rental Services Association of America  
Water Pollution Control Federation

#### SOCIAL WELFARE

American Association of Poison Control Centers  
National Accreditation Council for Agencies Serving the Blind and Visually Handicapped  
National Easter Seal Society  
National Library Service for the Blind and Physically Handicapped (Library of Congress)  
National Safety Council  
National Society to Prevent Blindness  
Public Buildings Service (GSA)  
Snell Memorial Foundation  
Standards Engineering Society  
United States Council for International Business

#### TEXTILES AND CLOTHING

American Association of Textile Chemists and Colorists  
American Fastener and Closure Association  
American Fiber Manufacturers Association  
American Furniture Manufacturers Association  
American Home Economics Association  
American Society for Testing and Materials  
American Textile Machinery Association  
Color Association of the United States  
Consumer Product Safety Commission  
Department of Defense  
Elastic Fabric Manufacturers Council of Northern Textile Association  
Felt Manufacturers Council of Northern Textile Association  
Industrial Fabrics Association International  
International Association of Wiping Cloths Manufacturers  
International Fabricare Institute  
National Cotton Council of America

Program Management (Consumer Product Safety Commission)  
Tanners Council of America  
Textile Rental Services Association of America  
United States Testing Company

## **TRANSPORTATION**

Aeronautical Radio, Incorporated  
Aerospace Industries Association of America  
Aircraft Locknut Manufacturers Association  
Aircraft Owners and Pilots Association  
Air Transport Association of America  
American Association of Motor Vehicle Administrators  
American Association of State Highway and Transportation Officials  
American Automobile Association  
American Boat and Yacht Council  
American Bureau of Shipping  
American Bus Association  
American Helicopter Society  
American Institute of Aeronautics and Astronautics  
American Petroleum Institute  
American Railway Engineering Association  
American Road and Transportation Builders Association  
Animal Health International  
Association of American Railroads  
Certified Automotive Parts Association  
Compressed Gas Association  
Containerization and Intermodal Institute  
Electronic Data Interchange Association  
Environment, Safety and Health (DOE)  
Federal Aviation Administration (DOT)  
Federal Highway Administration (DOT)  
Flight Safety Foundation  
General Aviation Manufacturers Association  
Helicopter Association International  
Institute of Nuclear Materials Management  
Institute of Transportation Engineers  
International Bridge, Tunnel and Turnpike Association  
International Cargo Gear Bureau  
International Mobile Air Conditioning Association  
Maritime Administration (DOT)  
Materials Transportation Bureau (DOT)  
Motor Vehicle Manufacturers Association of the United States  
National Association of Chain Manufacturers  
National Automobile Theft Bureau  
National Cargo Bureau  
National Institute of Standards and Technology (Commerce)  
National Safe Transit Association  
National Tire Dealers and Retreaders Association  
Occupational Safety and Health Administration (DOL)  
Railway Tie Association  
Recreation Vehicle Industry Association  
Society of Automotive Engineers

Society of Naval Architects and Marine Engineers  
Steel Shipping Container Institute  
Tire and Rim Association  
Trailer Hitch Manufacturers Association  
Truck Trailer Manufacturers Association  
United Shipowners of America  
United States Coast Guard (DOT)

#### WOOD AND WOOD PRODUCTS

American Institute of Timber Construction  
American Ladder Institute  
American Lumber Standards Committee  
American Plywood Association  
American Wood Preservers Bureau  
American Wood-Preservers Association  
Architectural Woodwork Institute  
Cedar Shake and Shingle Bureau  
Department of Housing and Urban Development  
Fine Hardwood Veneer Association  
Forest Service (USDA)  
Hardwood Lumber Manufacturers Association  
Hardwood Plywood Manufacturers Association  
Housing and Urban Development, Department of  
Maple Flooring Manufacturers Association  
National Dimension Manufacturers Association  
National Forest Products Association  
National Hardwood Lumber Association  
National Oak Flooring Manufacturers Association  
National Particleboard Association  
National Sash and Door Jobbers Association  
National Woodwork Manufacturers Association  
Northeastern Lumber Manufacturers Association  
Redwood Inspection Service  
Southern Cypress Manufacturers Association  
Southern Forest Products Association  
Southern Pine Inspection Bureau  
Technical Association of the Pulp and Paper Industry  
Truss Plate Institute  
West Coast Lumber Inspection Bureau  
Western Wood Products Association  
Wood and Synthetic Flooring Institute  
Wood Heating Alliance  
Wood Machinery Manufacturers of America  
Wood Moulding and Millwork Producers  
Woodwork Institute of California



## 5.2 ACRONYMS AND INITIALS

This list of acronyms and initials serves to identify organizations, however, there is no exclusivity: there are four NFPA's, two EIA's and other duplications.

AA	Aluminum Association
AAA	American Automobile Association
AAAA	American Association of Advertising Agencies
AAB	American Association of Bioanalysts
AABB	American Association of Blood Banks
AABC	Associated Air Balance Council
AACC	American Association for Clinical Chemistry
AACC	American Association of Cereal Chemists
AACP	Association of Asbestos Cement Pipe Producers
AAFCO	Association of American Feed Control Officials
AAHPERD	American Alliance for Health, Physical Education, Recreation and Dance
AAI	Alliance of American Insurers
AALA	American Association for Laboratory Accreditation
A2LA	American Association for Laboratory Accreditation
AAMA	American Architectural Manufacturers Association
AAMI	Association for the Advancement of Medical Instrumentation
AAMVA	American Association of Motor Vehicle Administrators
AAN	American Association of Nurserymen
AANS	American Association of Neurological Surgeons
AAP	American Academy of Pediatrics
AAP	Association of American Publishers
AAPCC	American Association of Poison Control Centers
AAPFCO	Association of American Plant Food Control Officials
AAPG	American Association of Petroleum Geologists
AAPSC	American Association of Psychiatric Services for Children
AAR	Association of American Railroads
AARC	American Association for Respiratory Care
AASHTO	American Association of State Highway and Transportation Officials
AATCC	American Association of Textile Chemists and Colorists
ABA	American Bankers Association
ABA	American Bus Association
ABC	American Bowling Congress
ABFLO	Association of Bedding and Furniture Law Officials
ABHES	Accrediting Bureau of Health Education Schools
ABMA	American Boiler Manufacturers Association
ABMA	American Brush Manufacturers Association
ABS	American Bureau of Shipping
ABYC	American Boat and Yacht Council
ACA	American Chain Association
ACA	American Crystallographic Association
ACCA	Air Conditioning Contractors of America
ACGIH	American Conference of Governmental Industrial Hygienists
ACI	American Concrete Institute
ACIL	American Council of Independent Laboratories
ACM	Association for Computing Machinery
ACMI	Art and Craft Materials Institute

ACPA	American Concrete Pipe Association
ACPPA	American Concrete Pressure Pipe Association
ACS	American Chemical Society
ACS	American College of Surgeons
ACSM	American Congress on Surveying and Mapping
ACTS	Advisory Commission on Textbook Specifications
ADA	American Dental Association
ADDA	American Design Drafting Association
ADI	Air Distribution Institute
ADPA	American Defense Preparedness Association
ADPI	American Dairy Products Institute
ADSC	Association of Drilled Shaft Contractors
AEG	Association of Engineering Geologists
AEIC	Association of Edison Illuminating Companies
AEMA	Asphalt Emulsion Manufacturers Association
AES	Abrasive Engineering Society
AES	American Electroencephalographic Society
AES	American Electroplaters Society
AEVH	Association for Education of the Visually Handicapped
AFBMA	Anti-Friction Bearing Manufacturers Association
AFCA	American Fastener and Closure Association
AFMA	American Feed Manufacturers Association
AFMA	American Fiber Manufacturers Association
AFMA	American Furniture Manufacturers Association
AFS	American Foundrymen's Society
AFSI	Architectural Fabric Structures Institute
AFTMA	American Fishing Tackle Manufacturers Association
AGA	Abrasive Grain Association
AGA	American Gas Association
AGA	American Galvanizers Association
AGC	Associated General Contractors of America
AGMA	American Gear Manufacturers Association
AHA	American Hardboard Association
AHA	American Heart Association
AHA	American Hospital Association
AHAM	Association of Home Appliance Manufacturers
AHEA	American Home Economics Association
AHI	Animal Health International
AH&MA	American Hotel and Motel Association
AHS	American Helicopter Society
AI	Asphalt Institute
AIA	Automated Imaging Association
AIA	Aerospace Industries Association of America
AIA	American Institute of Architects
AIA	American Insurance Association
AIAA	American Institute of Aeronautics and Astronautics
AIA/NA	Asbestos Information Association North America
AIChE	American Institute of Chemical Engineers
AIDD	American Institute for Design and Drafting
AIHA	American Industrial Hygiene Association
AIIM	Association for Information and Image Management
AIMA	Automatic Identification Manufacturers Association
AIP	American Institute of Physics
AISC	American Institute of Steel Construction



AISE	Association of Iron and Steel Engineers
AISI	American Iron and Steel Institute
AITC	American Institute of Timber Construction
ALA	American Laminators Association
ALA	American Library Association
ALA	Associated Locksmiths of America
ALCA	American Leather Chemists Association
ALI	American Ladder Institute
ALI	American Lighting Institute
ALMA	Aircraft Locknut Manufacturers Association
ALSC	American Lumber Standards Committee
AMA	Adhesives Manufacturers Association
AMA	American Medical Association
AMCA	Air Movement and Control Association
AMHA	American Heart Association
AMO	Archery Manufacturers Organization
AMRA	Automatic Meter Reading Association
AMS	Agricultural Marketing Service (USDA)
ANMC	American National Metric Council
ANS	American Nuclear Society
ANSC	American National Standards Committee
ANSI	American National Standards Institute
AOA	American Optometric Association
AOAC	Association of Official Analytical Chemists
AOCS	American Oil Chemists Society
AOMA	American Occupational Medical Association
AOPA	Aircraft Owners and Pilots Association
AOSA	Association of Official Seed Analysts
AOSCA	Association of Official Seed Certifying Agencies
APA	American Plywood Association
APA	American Psychiatric Association
APA	American Psychoanalytical Association
APA	Architectural Precast Association
APFA	American Pipe Fittings Association
APhA	American Pharmaceutical Association
APHA	American Public Health Association
API	American Paper Institute
API	American Petroleum Institute
APMA	American Podiatric Medical Association
APPA	Association of Physical Plant Administrators of Universities and Colleges
APWA	American Public Works Association
AREA	American Railway Engineering Association
ARI	Air-Conditioning and Refrigeration Institute
ARINC	Aeronautical Radio, Incorporated
ARMA	Asphalt Roofing Manufacturers Association
ARMA	Association of Records Managers and Administrators
ARPI	Automotive Refrigeration Products Institute
ARTBA	American Road and Transportation Builders Association
ASA	Acoustical Society of America
ASA	American Society of Anesthesiologists
ASA	American Soybean Association
ASA	American Statistical Association
ASAE	American Society of Agricultural Engineers



ASAI0	American Society for Artificial Internal Organs
ASBC	American Society of Brewing Chemists
ASC	American Society of Cinematographers
ASCE	American Society of Civil Engineers
ASEP	American Society of Electroplated Plastics
ASEV	American Society for Enology and Viticulture
ASHA	American Speech-Language and Hearing Association
ASHRAE	American Society of Heating, Refrigerating and Air- Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASMT	American Society for Medical Technology
ASNT	American Society for Non-Destructive Testing
ASPA	American Sod Producers Association
ASPE	American Society of Plumbing Engineers
ASPRS	American Society for Photogrammetry and Remote Sensing
ASQC	American Society for Quality Control
ASSE	American Society of Safety Engineers
ASSE	American Society of Sanitary Engineering
ASTA	American Spice Trade Association
ASTM	American Society for Testing and Materials
ATA	Air Transport Association of America
ATMA	American Textile Machinery Association
ATS	American Thoracic Society
ATSC	Advanced Television Systems Committee
AVS	American Vacuum Society
AWCI	Association of Wall and Ceiling Industries, International
AWI	American Watchmakers Institute
AWI	Architectural Woodwork Institute
AWMA	Air and Waste Management Association
AWPA	American Wire Producers Association
AWPA	American Wood-Preservers Association
AWPB	American Wood Preservers Bureau
AWS	American Welding Society
AWWA	American Water Works Association
ABA	Blue Anchor
BATF	Bureau of Alcohol, Tobacco, and Firearms (Treasury)
BBII	Brass and Bronze Ingot Institute
BC	Bureau of Competition (FTC)
BCA	Billiard Congress of America
BCI	Battery Council International
BCP	Bureau of Consumer Protection (FTC)
BHMA	Builders Hardware Manufacturers Association
BIA	Brick Institute of America
BIFMA	Business and Institutional Furniture Manufacturers Association
BISG	Book Industry Study Group
BISSC	Baking Industry Sanitation Standards Committee
BMI	Book Manufacturers Institute
BOCA	Building Officials and Code Administrators International
BOMA	Building Owners and Management Association International
BSC	Biological Stain Commission
CABO	Council of American Building Officials
CAGI	Compressed Air and Gas Institute
CAM	Center for Agricultural Machinery

CAMI	Coated Abrasives Manufacturers Institute
CAM-I	Computer Aided Manufacturing International
CAP	College of American Pathologists
CAPA	Certified Automotive Parts Association
CARF	Commission of Accreditation of Rehabilitation Facilities
CAUS	Color Association of the United States
CBEMA	Computer and Business Equipment Manufacturers Association
CBM	Certified Ballast Manufacturers
CC	Cadmium Council
CCPA	Cemented Carbide Producers Association
CCTI	Composite Can and Tube Institute
CDA	Copper Development Association
CDC	Center for Disease Control (DHHS)
CEMA	Cleaning Equipment Manufacturers Association
CEMA	Conveyor Equipment Manufacturers Association
CFA	Consumer Federation of America
CFFA	Chemical Fabrics and Film Association
CFTMA	Caster and Floor Truck Manufacturers Association
CA	Compressed Gas Association
CI	Chlorine Institute
CI	Cordage Institute
CII	Containerization and Intermodal Institute
CIMA	Construction Industry Manufacturers Association
CISC	Ceiling and Interior Systems Contractors
CISEP	Cellulose Industry Standards Enforcement Program
CISPI	Cast Iron Soil Pipe Institute
CLFMI	Chain Link Fence Manufacturers Institute
CMA	Chemical Manufacturers Association
CMA	Cookware Manufacturers Association
CMI	Can Manufacturers Institute
CMI	Cultured Marble Institute
CNS	Congress of Neurological Surgeons
COS	Corporation for Open Systems International
CPB	Contractors Pump Bureau
CPMB	Concrete Plant Manufacturers Bureau
CPSC	Consumer Product Safety Commission
CRA	Corn Refiners Association
CRI	Carpet and Rug Institute
CRMA	Commercial Refrigerator Manufacturers Association
CRSI	Concrete Reinforcing Steel Institute
CSI	Construction Specifications Institute
CSMA	Chemical Specialties Manufacturers Association
CSMD	Control Systems Manufacturers Division (CPMB)
CSSB	Cedar Shake and Shingle Bureau
CSSIA	Computer Software and Services Industry Association
CTFA	Cosmetic, Toiletry and Fragrance Association
CTI	Cooling Tower Institute
CWAA	Cotton Warehouse Association of America
DECO	Document Engineering Company
DFAC	DFA of California
DFI	Deep Foundations Institute
DFISA	Dairy and Food Industries Supply Association
DHHS	Department of Health and Human Services
DHI	Door and Hardware Institute



DIPRA	Ductile Iron Pipe Research Association
DISC	Defense Industrial Supply Center (DOD)
DLPA	Decorative Laminate Products Association
DMA	Dental Manufacturers of America
DOC	Department of Commerce
DOD	Department of Defense
DOE	Department of Energy
DORCMA	Door Operator and Remote Controls Manufacturers Association
DOT	Department of Transportation
DPMA	Data Processing Management Association
DQSO	Defense Quality and Standardization Office (DOD)
DSCUS	Distilled Spirits Council of the United States
DSSP	Defense Standardization and Specification Program
DWGI	Diamond Walnut Growers, Incorporated
DWMI	Diamond Wheel Manufacturers Institute
EASA	Electrical Apparatus Service Association
EBBA	Eastern Bird Banding Association
ECSA	Exchange Carriers Standards Association
EDIA	Electronic Data Interchange Association
EEI	Edison Electric Institute
EFMC	Elastic Fabric Manufacturers Council of Northern Textile Association
EGSA	Electrical Generating Systems Association
EIA	Electronic Industries Association
EIA	Energy Information Administration (DOE)
EJMA	Expansion Joint Manufacturers Association
EMI	Equipment Manufacturers Institute
EMRC	Electronic Media Rating Council
EPA	Environmental Protection Agency
ESA	Entomological Society of America
ESCSI	Expanded Shale, Clay and Slate Institute
ES&H	Environment Safety & Health (DOE)
ETI	Equipment and Tool Institute
ETL	ETL Testing Laboratories
FAA	Federal Aviation Administration (DOT)
FACT	Federation of Automated Coding Technologies
FAS	Foreign Agricultural Service (USDA)
FASF	Financial Accounting Standards Foundation
FBA	Fibre Box Association
FCC	Federal Communications Commission
FCI	Fluid Controls Institute
FDA	Food and Drug Administration (DHHS)
FGIS	Federal Grain Inspection Service (USDA)
FGMA	Flat Glass Marketing Association
FHDA	Fir and Hemlock Door Association
FHVA	Fine Hardwood Veneer Association
FHWA	Federal Highway Administration (DOT)
FI	Fertilizer Institute
FIA	Forging Industry Association
FIEI	Now Equipment Manufacturers Institute
FIPS PUBS	Federal Information Processing Standards Publications
FMC	Felt Manufacturers Council of Northern Textile Association
FMCSR	Federal Motor Carrier Safety Regulations
FMRC	Factory Mutual Research Corporation



FMSI	Friction Materials Standards Institute
FPA	Flexible Packaging Association
FPMISA	Food Processing Machinery and Supplies Association
FSCT	Federation of Societies for Coatings Technology
FSF	Flight Safety Foundation
FSIS	Food Safety and Inspection Service (USDA)
FSS	Federal Supply and Services (GSA)
FTC	Federal Trade Commission
GA	Gypsum Association
GAA	Gravure Association of America
GAMA	Gas Appliance Manufacturers Association
GAMA	General Aviation Manufacturers Association
GATT	General Agreement on Tariffs and Trade
GCA	Graphic Communications Association
GEAPS	Grain Elevator and Processing Society
GI	Gold Institute
GIA	Gemological Institute of America
GIA	Gummed Industries Association
GPA	Gas Processors Association
GPI	Glass Packaging Institute
GPO	Government Printing Office
GRAS	Generally Recognized as Safe (FDA/DHHS)
GSA	General Services Administration
GSA/NARS	General Services Administration's National Archives & Records Services
GTA	Glass Tempering Association
GW	Grinding Wheel Institute
HAA	Home Automation Association
HAI	Helicopter Association International
HBSMAA	Hack and Band Saw Manufacturers Association of America
HCFA	Health Care Financing Administration (DHHS)
HEI	Heat Exchange Institute
HEPA	High Efficiency Particulate Air
HFS	Human Factors Society
HHS	Health and Human Services, Department of
HI	Hydraulic Institute
HI	Hydronics Institute
HI	Hair International
HIMA	Health Industry Manufacturers Association
HLMA	Hardwood Lumber Manufacturers Association
HPMA	Hardwood Plywood Manufacturers Association
HPS	Health Physics Society
HTI	Hand Tools Institute
HUD	Department of Housing and Urban Development
HVI	Home Ventilating Institute
IA	Irrigation Association
IAEI	International Association of Electrical Inspectors
IAMFES	International Association of Milk, Food and Environmental Sanitarians
IAPMO	International Association of Plumbing and Mechanical Officials
IAWCM	International Association of Wiping Cloth Manufacturers
IBEW	International Brotherhood of Electrical Workers
IBTTA	International Bridge, Tunnel and Turnpike Association

ICBO	International Conference of Building Officials
ICEA	Insulated Cable Engineers Association
ICGB	International Cargo Gear Bureau
ICI	Investment Casting Institute
ICIA	International Communications Industries Association
ICMA	International City Management Association
ICPS	International Coalition for Procurement Standards
ICSP	Interagency Committee for Standardization Policy
ICST	Institute for Computer Sciences and Technology
IDAA	Industrial Diamond Association of America
IDHA	International District Heating Association
IEEE	Institute of Electrical and Electronics Engineers
IES	Illuminating Engineering Society of North America
IES	Institute of Environmental Sciences
IETA	International Electrical Testing Association
IFAI	Industrial Fabrics Association International
IFI	Industrial Fasteners Institute
IFI	International Fabricare Institute
IFIA	International Fence Industry Association
IGCI	Industrial Gas Cleaning Institute
IHS	Information Handling Services
IIAR	International Institute of Ammonia Refrigeration
IIE	Institute of Industrial Engineers
ILIA	Indiana Limestone Institute of America
IMACA	International Mobile Air Conditioning Association
IME	Institute of Makers of Explosives
IMI	International Masonry Institute
IMSA	International Municipal Signal Association
INMM	Institute of Nuclear Materials Management
IPA	Industrial Perforators Association
IPC	Institute for Interconnecting and Packaging Electrical Circuits
ISA	Instrument Society of America
ISA	International Society of Arboriculture
ISANTA	International Staple, Nail and Tool Association
ISCC	Inter-Society Color Council
ISDSI	Insulated Steel Door Systems Institute
ISEA	Industrial Safety Equipment Association
ISPA	International Sleep Products Association
ISTC	Interdepartmental Screw Thread Committee (See Defense Industrial Supply Center)
ISTVS	International Society for Terrain-Vehicle Systems
ITA	Industrial Truck Association
ITA	International Tape/Disc Association
ITA	International Trade Administration (DOC)
ITE	Institute of Transportation Engineers
ITS	Institute for Telecommunications Sciences (NTIA, DoC)
JCP	Joint Committee on Printing (Congress of the U.S.)
JEDEC	Joint Electron Device Engineering Council
JIC	Joint Industrial Council
JMDC	Joint Materials and Devices Committee
JNCDD	Joint Neurosurgical Committee on Devices and Drugs
JPMA	Juvenile Products Manufacturers Association
JVC	Jewelers Vigilance Committee



LBI	Library Binding Institute
LC	Library of Congress
LESL	Law Enforcement Standards Laboratory (NIST, DOC)
LIA	Lead Industries Association
LIA	Leather Industries of America
LIA	Laser Institute of America
LIUNA	Laborers International Union of North America
LPI	Lightning Protection Institute
MA	Maritime Administration (DOT)
MAP	Manufacturing Automation Protocol, see COS
MBMA	Metal Building Manufacturers Association
MCAA	Mechanical Contractors Association of America
MCSMI	Masonry and Concrete Saw Manufacturers Institute
MDA	Marking Device Association
MDC	MUMPS Development Committee
MFMA	Maple Flooring Manufacturers Association
MHI	Manufactured Housing Institute
MHI	Material Handling Institute
MIA	Marble Institute of America
MIMA	Mineral Insulation Manufacturers Association
MJSA	Manufacturing Jewelers and Silversmiths of America
MLMA	Metal Ladder Manufacturers Association
MMA	Monorail Manufacturers Association
MMPA	Magnetic Materials Producers Association
MMS	Minerals Management Service
MMSA	Materials and Methods Standards Association
MOSAI	MO-SAI Institute
MPA	Magazine Publishers Association
MPIF	Metal Powder Industries Federation
MPS	Minimum Property Standards
MPTA	Mechanical Power Transmission Association
MSHA	Mine Safety and Health Administration (DOL)
MSSVFI or MSS	Manufacturers Standardization Society of the Valve and Fittings Industry
MTB	Materials Transportation Bureau (DOT)
MTI	Metal Treating Institute
MTM	MTM Association for Standards and Research
MUTCD	Manual on Uniform Traffic Control Devices (DOT)
MVMA	Motor Vehicle Manufacturers Association of the United States
NAA	National Arborist Association
NAAMM	National Association of Architectural Metal Manufacturer
NAB	National Association of Broadcasters
NACAB	National Accreditation Council for Agencies Serving the Blind and Visually Handicapped
NACE	National Association of Corrosion Engineers
NACE	National Association of County Engineers
NACM	National Association of Chain Manufacturers
NADCA	North American Die Casting Association
NAGDM	National Association of Garage Door Manufacturers
NAHM	National Association of Hosiery Manufacturers
NAHPMM	National Association of Hospital Purchasing Materials Management
NAIOP	National Association of Industrial and Office Parks
NAJA	National Association of Jewelry Appraisers



NAMA	National Automatic Merchandising Association
NAMO	National Association of Manufacturing Opticians
NANPM	National Association of Name Plate Manufacturers
NAPCA	National Association of Pipe Coating Applicators
NAPHCC	National Association of Plumbing-Heating-Cooling Contractors
NAPM	National Association of Photographic Manufacturers
NAPM	National Association of Punch Manufacturers
NAPM	National Association of Purchasing Management
NAR	National Association of Rocketry
NARM	National Association of Relay Manufacturers
NARS	National Archives and Records Service (GSA)
NASA	National Aeronautics and Space Administration
NASPO	National Association of State Purchasing Officials
NASTA	National Association of State Textbook Administrators
NATB	National Automobile Theft Bureau
NAVPUBS	Naval Publications and Forms Center
NBBPVI	National Board of Boiler and Pressure Vessel Inspectors
NBFAA	National Burglar and Fire Alarm Association
NBGQA	National Building Granite Quarries Association
NBS	Now National Institute of Standards and Technology (NIST)
NBSPA	National Bark and Soil Producers Association
NCA	National Coffee Association of the U.S.A.
NCB	National Cargo Bureau
NCCA	National Coil Coaters Association
NCCA	National Cotton Council of America
NCCLS	National Committee for Clinical Laboratory Standards
NCGA	National Computer Graphics Association
NCL	National Civic League Inc.
NCMA	National Concrete Masonry Association
NCPA	National Cottonseed Products Association
NCPI	National Clay Pipe Institute
NCPMA	National Clay Pot Manufacturers Association
NCPWB	National Certified Pipe Welding Bureau
NCRPM	National Council on Radiation Protection and Measurements
NCSBCS	National Conference of States on Building Codes and Standards
NCSCI	National Center for Standards and Certification Information (NIST, DOC)
NCSPA	National Corrugated Steel Pipe Association
NCTA	National Cable Television Association
NDMA	National Dimension Manufacturers Association
NEBB	National Environmental Balancing Bureau
NECA	National Electrical Contractors Association
NEHA	National Environmental Health Association
NEI	National Elevator Industry
NELMA	Northeastern Lumber Manufacturers Association
NEMA	National Electrical Manufacturers Association
NESDIS	National Environmental Satellite, Data, and Information Service (NOAA, DOC)
NESS	National Easter Seal Society
NETA	National Electrical Testing Association
NF	National Formulary
NFAIS	National Federation of Abstracting and Information Services
NFDA	National Fastener Distributors Association
NFI	National Fisheries Institute

NFPA	National Fire Protection Association
NFPA	National Fluid Power Association
NFPA	National Food Processors Association
NFPA	National Forest Products Association
NFSA	National Fertilizer Solutions Association
NFSA	National Fire Sprinkler Association
NFSHI	National Fisheries Institute
NFSHSA	National Federation of State High School Associations
NHLA	National Hardwood Lumber Association
NHTSA	National Highway Traffic Safety Administration (DOT)
NIBS	National Institute of Building Sciences
NIJ	National Institute of Justice (see NIST, DOC)
NIIS	National Institute of Infant Services
NIOP	National Institute of Oilseed Products
NIOSH	National Institute for Occupational Safety and Health (Center for Disease Control, DHHS)
NISO	National Information Standards Organization
NIST	National Institute of Standards and Technology (DOC)
NKHA	National Kerosene Heater Association
NLA	National Lime Association
NLGI	National Lubricating Grease Institute
NLN	National League for Nursing
NLSBPH	National Library Service for the Blind and Physically Handicapped (Library of Congress)
NMD	National Mapping Division (USGS, DOI)
NMEA	National Marine Electronics Association
NMFS	National Marine Fisheries Service (DOC)
NMRA	National Model Railroad Association
NMTBA	NMTBA - The Association for Manufacturing Technology
NOAA	National Oceanic and Atmospheric Administration (DOC)
NOCSAE	National Operating Committee for Standards in Athletic Equipment
NOFMA	National Oak Flooring Manufacturers Association
NOPA	National Oilseed Processors Association
NOPA	National Office Products Association
NPA	National Particleboard Association
NPCA	National Pest Control Association
NPFC	Naval Publications and Forms Center
NPGA	National Propane Gas Association
NPIRI	National Printing Ink Research Institute
NRA	National Rifle Association of America
NRC	Nuclear Regulatory Commission
NRCA	National Roofing Contractors Association
NRDCA	National Roof Deck Contractors Association
NRMA	National Retail Merchants Association
NSA	National Slag Association
NSA	National Standards Association
NSA	National Stone Association
NSC	National Safety Council
NSDA	National Soft Drink Association
NSDJA	National Sash and Door Jobbers Association
NSEA	National Standards Educators Association
NSF	National Sanitation Foundation
NSPB	National Society to Prevent Blindness



NSPI	National Spa and Pool Institute
NSPL	NASA Standard Parts List
NSPP	NASA Standard Parts Program
NSSEA	National School Supply and Equipment Association
NSTA	National Safe Transit Association
NSWMA	National Solid Wastes Management Association
NTA	Northern Textile Association
NTDRA	National Tire Dealers and Retreaders Association
NTIA	National Telecommunication and Information Administration (DOC)
NTIS	National Technical Information Services
NTMA	National Terrazzo and Mosaic Association
NVLAP	National Voluntary Laboratory Accreditation Program (NIST, DOC)
NWHA	National Wholesale Hardware Association
NWMA	National Woodwork Manufacturers Association
NWPCA	National Wooden Pallet and Container Association
NWS	National Weather Service (NOAA, DOC)
NWWA	National Water Well Association
OBERD	Office of Building Energy Research and Development (DOE)
OESH	Office of Environment, Safety, and Health (DOE)
OFCM	Office of Federal Coordination for Metrology (DOC)
OHO	Occupational Health Office (NASA)
OIRM	Office of Information Resources Management (USDA)
OLA	Optical Laboratories Association
ONRR	Office of Nuclear Regulatory Research (NRC)
OP	Office of Procurement (GSA)
OPCC	Optical Product Code Council
OPEI	Outdoor Power Equipment Institute
OPS	Office of Procurement and Supply (VA)
OSA	Optical Society of America
OSHA	Occupational Safety and Health Administration (DOL)
OSMA	Orthopedic Surgical Manufacturers Association
OSS	Office of Statistical Standards (DOE)
OST	Office of Science and Technology (FCC)
OTC	Over-the-Counter (FDA, DHHS)
OUSDRE	Office of the Undersecretary of Defense for Research and Engineering (DOD)
OUSTR	Office of the U.S. Trade Representative (Executive Office of the President)
PATMI	Powder Actuated Tool Manufacturers Institute
PCA	Portland Cement Association
PCMI	Photo Chemical Machining Institute
PDCA	Painting and Decorating Contractors of America
PDI	Plumbing and Drainage Institute
PEI	Porcelain Enamel Institute
PFI	Pipe Fabrication Institute
PI	Perlite Institute
PIA	Printing Industries of America
PLCA	Pipe Line Contractors Association
PMA	Pharmaceutical Manufacturers Association
PMA	Polyurethane Manufacturers Association
PMI	Project Management Institute
PMMD	Plant Mixer Manufacturers Division (CPMB)



PMMI	Packaging Machinery Manufacturers Institute
PPC	Paperboard Packaging Council
PPCI	Precast/Prestressed Concrete Institute
PPEMA	Portable Power Equipment Manufacturers Association
PPI	Plastics Pipe Institute
PPMMA	Pulp and Paper Machinery Manufacturers Association
PSA	Photographic Society of America
PSA	Portable Sanitation Association
PSTC	Pressure Sensitive Tape Council
PTI	Post-Tensioning Institute
REA	Rural Electrification Administration (USDA)
RFCI	Resilient Floor Covering Institute
RI	Refractories Institute
RIA	Robotic Industries Association
RIAA	Recording Industry Association of America
RIS	Redwood Inspection Service
RMA	Rice Millers Association
RMA	Rubber Manufacturers Association
RMI	Rack Manufacturers Institute
RSNA	Radiological Society of North America
RTA	Railway Tie Association
RTCA	Radio Technical Commission for Aeronautics
RTCM	Radio Technical Commission for Maritime Services
RVIA	Recreation Vehicle Industry Association
RWMA	Resistance Welder Manufacturers Association
SAAMI	Sporting Arms and Ammunition Manufacturers Institute
SAE	Society of Automotive Engineers
SBCCI	Southern Building Code Congress International
SBMA	Steel Bar Mills Association
SCCA	Sports Car Club of America
SCHHP	Standards Committee for Hi-Lok and Hi-Tigue Products
SCI	Sponge and Chamois Institute
SCMA	Southern Cypress Manufacturers Association
SDI	Steel Deck Institute
SDI	Steel Door Institute
SEM	Society for Experimental Mechanics
SEMI	Semiconductor Equipment and Materials Institute
SES	Standards Engineering Society
SET	System Engineering and Technology (NASA)
SFI	SEMA Foundation Incorporated
SFPA	Southern Forest Producers Association
SFPE	Society of Fire Protection Engineers
SFSA	Steel Founders Society of America
SGCC	Safety Glazing Certification Council
SI	Salt Institute
SI	Silver Institute
SI	SPARC International
SID	Society for Information Display
SIGMA	Sealed Insulating Glass Manufacturers Association
SJI	Steel Joist Institute
SLA	Special Libraries Association
SMA	Scale Manufacturers Association
SMA	Screen Manufacturers Association
SMA	Steel Manufacturers Association

SMA	Stucco Manufacturers Association
SMACNA	Sheet Metal and Air Conditioning Contractors National Association
SMF	Snell Memorial Foundation
SMI	Spring Manufacturers Institute
SMMA	Small Motor Manufacturers Association
SMPTE	Society of Motion Picture and Television Engineers
SNAME	Society of Naval Architects and Marine Engineers
SPFA	Steel Plate Fabricators Association
SPI	Society of the Plastics Industry
SPIB	Southern Pine Inspection Bureau
SRCC	Solar Rating and Certification Corporation
SRI	Southwest Research Institute
SSCC	Snowmobile Safety and Certification Committee
SSCI	Steel Service Center Institute
SSCI	Steel Shipping Container Institute
SSFI	Scaffolding, Shoring and Forming Institute
SSPC	Steel Structures Painting Council
SSPMA	Sump and Sewage Pump Manufacturers Association
STC	Society for Technical Communication
STI	Steel Tank Institute
SWI	Steel Window Institute
TAB	Traffic Audit Bureau
TAPPI	Technical Association of the Pulp and Paper Industry
TBA	Test Boring Association
TCA	Tile Council of America
TCMA	Technical Ceramics Manufacturers Association
TCNA	Tube Council of North America
TEMA	Tubular Exchanger Manufacturers Association
THMA	Trailer Hitch Manufacturers Association
TIMA	Thermal Insulation Manufacturers Association
TMA	Toy Manufacturers of America
TMMB	Truck Mixer Manufacturers Bureau
TOP	Technical and Office Protocol, see COS
TPI	Truss Plate Institute
TRA	Tire and Rim Association
TRI	Tin Research Institute
TRMI	Tubular Rivet and Machine Institute
TRSA	Textile Rental Services Association of America
TTMA	Truck Trailer Manufacturers Association
UIA	Ultrasonic Industry Association
UL	Underwriters Laboratories
ULPA	United Lightning Protection Association
USA	United Shipowners of America
USCG	United States Coast Guard (DOT)
USCIB	United States Council for International Business
USCS	United States Customs Service (Treasury)
USCTI	United States Cutting Tool Institute
USDA	Department of Agriculture
USDA/FS	Department of Agriculture Forest Service
USGA	United States Golf Association
USGS	United States Geological Survey (DOI)
USHSLA	United States Hide, Skin and Leather Association
USIA	United Ski Industries Association

USMA	United States Metric Association
USP	United States Pharmacopeial Convention
USPS	United States Postal Service
USPTO	United States Patent and Trademark Office (DOC)
USTA	United States Telephone Association
USTC	United States Testing Company
USTC&TBA	United States Tennis Court and Track Builders Association
USTR	United States Trade Representative (Executive Office of the President)
VA	Department of Veterans Affairs
VCMA	Vacuum Cleaner Manufacturers Association
VMA	Valve Manufacturers Association
VRCI	Variable Resistive Components Institute
VSI	Vinyl Siding Institute
VSMF	See Information Handling Services
VWDI	Vinyl Window and Door Institute
WCLIB	West Coast Lumber Inspection Bureau
WHA	Wood Heating Alliance
WIC	Woodwork Institute of California
WMMA	Wood Machinery Manufacturers of America
WMMP	Wood Moulding and Millwork Producers
WPCF	Water Pollution Control Federation
WQA	Water Quality Association
WRD	Water Resources Division, (USGS, DOI)
WRI	Wire Reinforcement Institute
WSC	Water Systems Council
WSFI	Wood and Synthetic Flooring Institute
WWPA	Western Wood Products Association



### 5.3 FORMER NAMES OF LISTED ORGANIZATIONS

Air Pollution Control Association  
now: Air and Waste Management Association

American Association for Respiratory Therapy  
now: American Association for Respiratory Care

American Die Casting Institute  
now: North American Die Casting Association

American Dry Milk Institute  
now: American Dairy Products Institute

American Home Lighting Institute  
now: American Lighting Institute

American Hot Dip Galvanizers Association  
now: American Galvanizers Association

American Podiatry Association  
now: American Podiatric Medical Association

American Society of Photogrammetry  
now: American Society for Photogrammetry and Remote Sensing

American Society of Enologists  
now: American Society for Enology and Viticulture

Architectural Aluminum Manufacturers Association  
now: American Architectural Manufacturers Association

Associated Master Barbers and Beauticians of America  
now: Hair International

Association of Data Processing Service Organizations  
now: The Computer Software and Services Industry Association

Ceilings and Interior Systems Construction Association  
now: Ceiling and Interior Systems Contractors

Chain Saw Manufacturers Association  
now: Portable Power Equipment Manufacturers Association

Council of American Flag Ship Operators  
now: United Shipowners of America

Crayon Art and Craft Materials Institute  
now: Art and Craft Materials Institute

Cutting Tool Manufacturers of America  
now: United States Cutting Tool Institute

Dry Process Ceramic and Steatite Manufacturers Association  
now: Technical Ceramics Manufacturers Association

Electrical Generating Systems Marketing Association  
now: Electrical Generating Systems Association

Farm and Industrial Equipment Institute  
now: Equipment Manufacturers Institute

Financial Accounting Standards Board  
now: Financial Accounting Standards Foundation

Fine Hardwoods - American Walnut Association  
now: Fine Hardwood Veneer Association

Gravure Technical Association  
now: Gravure Association of America

Hardwood Dimension Manufacturers Association  
now: National Dimension Manufacturers Association

Joint Committee on Devices and Drugs  
now: Joint Neurosurgical Committee on Devices and Drugs

Man-Made Fiber Producers Association  
now: American Fiber Manufacturers Association

Metal Cutting Tool Institute  
now: United States Cutting Tool Institute

Methods and Materials Standards Association  
now: Materials and Methods Standards Association

National Association of Bedding Manufacturers  
now: International Sleep Products Association

National Association of Furniture Manufacturers  
now: American Furniture Manufacturers Association

National Association of Plastic Fabricators  
now: Decorative Laminate Products Association

National Automatic Sprinkler and Fire Control Association  
now: National Fire Sprinkler Association

National Bark Producers Association  
now: National Bark and Soil Producers Association

National Crushed Stone Association  
now: National Stone Association

National Machine Tool Builders Association  
now: NMTBA - The Association for Manufacturing Technology

National Municipal League  
now: National Civic League Inc.

National Ski Areas Association  
now: United Ski Industries Association

National Soybean Processors Association  
now: National Oilseed Processors Association

Prestressed Concrete Institute  
now: Precast/Prestressed Concrete Institute

Pulverized Limestone Association  
now: National Stone Association

Red Cedar Shingle and Handsplit Shake Bureau  
now: Cedar Shake and Shingle Bureau

Slide Fastener Association  
now: American Fastener and Closure Association

Society for Experimental Stress Analysis  
now: Society for Experimental Mechanics

Society of Die Casting Engineers  
now: North American Die Casting Association

Solar Energy Industries Association  
now: Solar Rating and Certification Corporation

Southern Hardwood Lumber Manufacturers Association  
now: Hardwood Lumber Manufacturers Association

Tanners Council of America  
now: Leather Industries of America

Transportation Data Coordinating Committee  
now: Electronic Data Interchange Association

Whey Products Institute  
now: American Dairy Products Institute



#### 5.4 ORGANIZATIONS NO LONGER INVOLVED IN STANDARDIZATION

Organizations that had developed standards or were listed in the 1984 Directory and that are

- (a) no longer active in standardization;
- (b) defunct or merged with another organization; or
- (c) cannot be located.

Air Diffusion Council (a)  
American Dental Trade Association (a)  
American Mining Congress (a)  
American Society of Lubrication Engineers (a)  
American Trucking Association (a)  
Barley and Malt Institute (b)  
Barre Granite Association (b)  
Bicycle Manufacturers Association (a)  
Commission on Accreditation of Rehabilitation Facilities (c)  
Council of National Library and Information Association (b)  
Diesel Engine Manufacturers Association (b)  
Facing Tile Institute (b)  
Fire and Hemlock Door Association (b)  
Fragrance Materials Association (a)  
Garage Door Council (b)  
Hardwood Lumber Manufacturers of Pennsylvania (b)  
Institute of Scrap Iron and Steel (b)  
International Database Association (b)  
International Silo Association (b)  
International Society for Terrain-Vehicle Systems (b)  
Mill Mutual Fire Prevention Bureau (b)  
National Association of Elevator Contractors (a)  
National Association of Recycling Industries (b)  
National Association of Standard Medical Vocabulary (b)  
National Knitwear Manufacturers Association (a)  
Noise Control Products and Materials Association (b)  
Northern Hardwood and Pine Manufacturers Association (b)  
Optical Manufacturers Association (a)  
Product Safety Association (b)  
Scientific Apparatus Makers Association (a)  
Society of Manufacturing Engineers (a)  
Thread Institute (b)  
Truck Body and Equipment Association (c)  
Western Electric Company (a)  
Zinc Institute (b)



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Supersedes NBS Special Publication 681

☐ DOCUMENT DESCRIBES A COMPUTER PROGRAM; SF-185, FIPS SOFTWARE SUMMARY, IS ATTACHED.

ABSTRACT (A 200-WORD OR LESS FACTUAL SUMMARY OF MOST SIGNIFICANT INFORMATION. IF DOCUMENT INCLUDES A SIGNIFICANT BIBLIOGRAPHY OR LITERATURE SURVEY, MENTION IT HERE.)

This directory is a guide to mandatory and voluntary standards activities in the United States at the national level - both governmental and nongovernmental (trade associations, technical and other professional societies). It excludes proprietary (company standards) and state and local levels of government (i.e., county and municipal). It supersedes the 1984 edition (NBS SP 681), "Standards Activities of Organizations in the United States." It includes standards distributors, libraries, and information centers, and union lists of standards repositories by regional areas. It also lists organizations that no longer develop standards or have become defunct since previous directory was issued.

Over 750 current descriptive commentaries are formatted, with subject headings to facilitate access to specific information. The main sections cover nongovernment; federal government; sources of standards documents and information; a subject index and related listings covering acronyms and initials, defunct bodies, and those organizations with name changes. Organizations have been included if they develop standards or contribute to the standardization process, whether voluntary or mandatory, or are sources of standards documents or information. An introductory section provides general information on federal (including military) standards activities, a list of 20 major nongovernment standards developers, some historical notes, and an overview of U.S. (national) standardization activities.

KEY WORDS (6 TO 12 ENTRIES; ALPHABETICAL ORDER; CAPITALIZE ONLY PROPER NAMES; AND SEPARATE KEY WORDS BY SEMICOLONS)  
codes; government standardization activities; nongovernment standardization activities; overview of U.S. standardization activities; recommended practices; sources of standards; specifications; standardization; standards; test methods

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